# CDX-4000X/4005/4800X

# SERVICE MANUAL

**Ver 1.1 2000. 08**

*US Model*
*Canadian Model*
*CDX-4000X/4005*
*E Model*
*CDX-4800X*

Photo: CDX-4000X

• The tuner and CD sections have no adjustments.

| | |
|---|---|
| Model Name Using Similar Mechanism | NEW |
| CD Drive Mechanism Type | MG-383Z-121//K |
| Optical Pick-up Name | KSS-720A |

## SPECIFICATIONS

**AUDIO POWER SPECIFICATIONS (US Model)**
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
19 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

### Other Specifications

**CD player section**

| | |
|---|---|
| System | Compact disc digital audio system |
| Signal-to-noise ratio | 90 dB |
| Frequency response | 10 – 20,000 Hz |
| Wow and flutter | Below measurable limit |
| Laser Diode Properties (CDX-4000X/4005) | |
| Material | GaAlAs |
| Wavelength | 780 nm |
| Emission Duration | Continuous |
| Laser output power | Less than 44.6 µW* |

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

**Tuner section**

**FM**

| | |
|---|---|
| Tuning range | CDX-4000X/4005:<br>87.5 – 107.9 MHz<br>CDX-4800X:<br>FM tuning interval:<br>50 kHz/200 kHz switchable<br>87.5 – 108 MHz (at 50 kHz step)<br>87.5 – 107.9 MHz (at 200 kHz step) |
| Antenna terminal | External antenna connector |
| Intermediate frequency | 10.7 MHz/450 kHz |
| Usable sensitivity | 8 dBf |
| Selectivity | 75 dB at 400 kHz |
| Signal-to-noise ratio | 66 dB (stereo),<br>72 dB (mono) |
| Harmonic distortion at 1 kHz | 0.6% (stereo),<br>0.3% (mono) |
| Separation | 35 dB at 1 kHz |
| Frequency response | 30 – 15,000 Hz |

**AM**

| | |
|---|---|
| Tuning range | CDX-4000X/4005:<br>530 – 1,710 kHz<br>CDX-4800X:<br>AM tuning interval:<br>9 kHz/10 kHz switchable<br>531 – 1,602 kHz (at 9 kHz step)<br>530 – 1,710 kHz (at 10 kHz step) |
| Antenna terminal | External antenna connector |
| Intermediate frequency | 10.7 MHz/450 kHz |
| Sensitivity | 30 µV |

**Power amplifier section**

| | |
|---|---|
| Outputs | Speaker outputs (sure seal connectors) |
| Speaker impedance | 4 – 8 ohms |
| Maximum power output | 50 W × 4 (at 4 ohms) |

– Continued on next page –

## FM/AM COMPACT DISC PLAYER

MICROFILM

SONY®

**General**

| | |
|---|---|
| Outputs | Audio outputs<br>Power antenna relay control lead<br>Power amplifier control lead<br>Telephone ATT control lead |
| Tone controls | Bass ±9 dB at 100 Hz<br>Treble ±9 dB at 10 kHz |
| Power requirements | 12 V DC car battery (negative ground) |
| Dimensions | Approx. 178 × 50 × 183 mm (7 1/8 × 2 × 7 1/4 in.) (w/h/d) |
| Mounting dimensions | Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d) |
| Mass | Approx. 1.2 kg (2 lb. 10 oz.) |
| Supplied accessories | Parts for installation and connections (1 set)<br>Front panel case (1) |

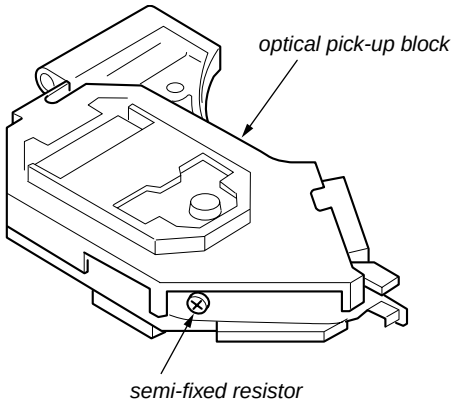
*Design and specifications are subject to change without notice.*

## SERVICE NOTES

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.




### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

### Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

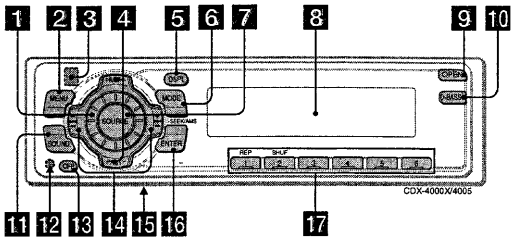
**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

# SECTION 1
# GENERAL

This section is extracted from CDX-4000X/4005's instruction manual.

## Location of controls




Refer to the pages listed for details.

1 **Volume control dial**
2 **MENU button** 7, 9, 10, 11, 12, 13, 16
3 **⏏ (eject) button (located on the front side of the unit behind the front panel)** 8
4 **DISC/PRST +/– (cursor up/down) buttons** 7, 9, 10, 11, 12, 13, 16
**During radio reception:** Preset stations select 11
5 **DSPL (display mode change) button** 8, 9, 13
6 **MODE button**
**During radio reception:** BAND select 10
7 **SOURCE (TUNER/CD) button** 7, 8, 9, 10, 11
8 **Display window**
9 **OPEN button** 6, 8, 17
10 **D-BASS button** 16
11 **SOUND button** 15
12 **Reset button (located on the front side of the unit behind the front panel)** 6
13 **OFF button***1 6, 7, 8
14 **SEEK/AMS –/+ (cursor left/right) buttons** 7, 9, 11, 12, 15, 16
Automatic Music Sensor 9
Manual Search 9
Seek 11
15 **Frequency select switch (located on the bottom of the unit)***2
The AM (FM) tuning interval is factory-set to the 10 k (200 k) position. Make sure that the 9 k (50 k) position is selected.
16 **ENTER button** 7, 9, 10, 11, 12, 13, 16
17 **Number buttons**
**During radio reception:** Preset number select 11
**During CD playback:** ① REP 10 ② SHUF 10

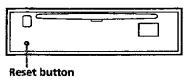
*1 **Warning when installing in a car without ACC (accessory) position on the ignition key switch**
**Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.**
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.
*2 *CDX-4005 only*



# Getting Started

## Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Remove the front pannel and press the reset button with a pointed object, such as a ball-point pen.



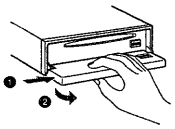

*Note*
*Pressing the reset button will erase the clock setting and some memorized functions such as the station memo.*

## Detaching the front panel

You can detach the front panel of this unit to protect the unit from being stolen.

**1** Press (OFF).

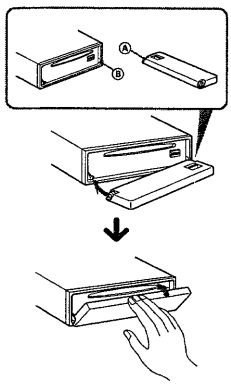
**2** **Press (OPEN), then slide the front panel to the right side, and pull out the left side of the front panel.**



*Notes*
- *Do not put anything on the inner surface of the front panel.*
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When carrying the front panel with you, use the supplied front panel case.*

### Attaching the front panel

Place the hole Ⓐ in the front panel onto the spindle Ⓑ on the unit as illustrated, then push the left side in.




*Notes*
- *Be careful not to attach the front panel upside down.*
- *Do not press the front panel too hard against the unit when attaching it.*
- *Do not press too hard or put excessive pressure on the display window of the front panel.*
- *Do not expose the front panel to direct sunlight or heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight or where there may be a considerable rise in temperature.*

### Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds.
If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.



## Turning the unit on/off

### Turning on the unit

Press (SOURCE) or insert a CD in the unit. For details on operation, refer to page 8 (CD player) and page 10 (radio).

### Turning off the unit

Press (OFF) to stop CD/MD playback or FM/AM reception (the key illumination and display remain on).
Press (OFF) for two seconds to completely turn the unit off.

*Note*
*If your car has no ACC position on the ignition key switch, be sure to turn the unit off by pressing (OFF) for two seconds to avoid car battery wear.*

## How to use the menu

This unit is operated by selecting items from a menu.
To select, first enter the menu mode and choose up/down ((+)/(–) of (PRST)), or choose left/right ((–)/(+) of (SEEK/AMS)).

(PRST)

(+): to select upwards

(–): to select downwards

(SEEK/AMS)

(–): to select leftwards

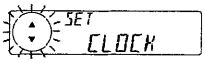
(+): to select rightwards

## Setting the clock

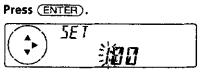
The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

**1** **Press (MENU), then press either side of (PRST) repeatedly until "CLOCK" appears.**




❶ **Press (ENTER).**



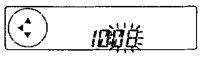

The hour indication flashes.

❷ **Press either side of (PRST) to set the hour.**

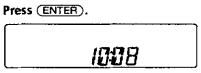
❸ **Press (+) side of (SEEK/AMS).**

The minute indication flashes.

❹ **Press either side of (PRST) to set the minute.**




**2** **Press (ENTER).**




The clock starts.

After the clock setting is completed, the display returns to normal play mode.

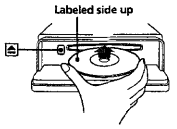
*Note*
*In the initial setting, the clock indication appears while the unit is turned off.*
*When the D.INFO mode is set to ON, the time is always displayed (page 16).*



# CD Player

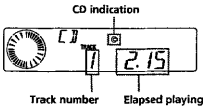
## Listening to a CD

**1** **Press (OPEN) and insert the CD.**




**2** **Close the front panel.**
Playback starts automatically.

If a CD is already inserted, press (SOURCE) repeatedly until "CD" appears to start playback.



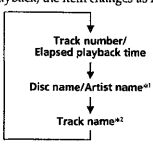

### When the last track on the CD is over

The track number indication returns to "1," and playback restarts from the first track of the CD.

| To | Press |
|---|---|
| Stop playback | (OFF) |
| Eject the CD | (OPEN) then ⏏ |

### Changing the display item

Each time you press (DSPL) during CD TEXT disc playback, the item changes as follows:




*1 *If you play a CD TEXT disc, the artist name appears in the display after the disc name. (Only for CD TEXT discs with the artist name.)*
*2 *If the track name of a CD TEXT disc is not prerecorded, "TRACK" and "NO NAME" appear in the display.*

After you select the desired item, the display will automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the items are scrolled in the display one by one in order.

*Tip*
*The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 16.)*

### Automatically scrolling a disc name — Auto Scroll

If the disc name, artist name, or track name on a CD TEXT disc exceeds eight characters and the Auto Scroll function is on, information automatically scrolls across the display as follows:

- *The disc name appears when the disc has changed (If the disc name is selected as the display item).*
- *The track name appears when the track has changed (If the track name is selected as the display item).*
- *The disc or track name appears depending on the setting when you press (SOURCE) to select CD TEXT disc.*

If you press (DSPL) to change the display item, the disc or track name of the CD TEXT disc is scrolled automatically whether you set the function on or off.

**1 During playback, press (MENU).**

**2 Press either side of (PRST) repeatedly until "A.SCRL-OFF" appears.**

**3 Press the (+) side of (SEEK/AMS) to select "A.SCRL-ON."**

**4 Press (ENTER).**

To cancel Auto Scroll, select "A.SCRL-OFF" in step 3.

***Note***

*For some CD TEXT discs with very many characters, the following cases may happen:*
*— Some of the characters are not displayed.*
*— Auto Scroll does not work.*

### Locating a specific track — Automatic Music Sensor (AMS)

**During playback, press either side of (SEEK/AMS) momentarily for each track you want to skip.**

### Locating a specific point in a track — Manual Search

**During playback, press and hold either side of (SEEK/AMS). Release when you have found the desired point.**

***Note***

*If "└└ └└" or "┐┌ ┐┌" appears in the display, you have reached the beginning or the end of the disc and you cannot go any further.*

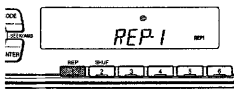


## Playing a CD in various modes

You can play CDs in various modes:
- REP (Repeat Play) repeats the current track.
- SHUF (Shuffle Play) plays all the tracks in random order.

### Playing tracks repeatedly — Repeat Play

**During playback, press (1) (REP).**

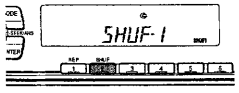



Repeat Play starts.

To return to normal play mode, select "REP-OFF."

### Playing tracks in random order — Shuffle Play

**During playback, press (2) (SHUF).**




Shuffle Play starts.

To return to normal play mode, select "SHUF-OFF."



# Radio

## Memorizing stations automatically

### — Best Tuning Memory (BTM)

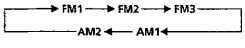
The unit selects the stations with the strongest signals and memorizes them in the order of their frequencies. You can store up to 6 stations on each band (FM1, FM2, FM3, AM1, and AM2).

**Caution**

When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

**1 Press (SOURCE) repeatedly to select the tuner.**
Each time you press (SOURCE), the source changes as follows:
Tuner ↔ CD

**2 Press (MODE) repeatedly to select the band.**
Each time you press (MODE), the band changes as follows:




**3 Press (MENU), then press either side of (PRST) repeatedly until "BTM" appears.**

**4 Press (ENTER).**
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds when the setting is stored.

***Notes***

- *The unit does not store stations with weak signals. If only a few stations can be received, some number buttons will retain their former setting.*
- *When a number is indicated in the display, the unit starts storing stations from the one currently displayed.*
- *If a CD is not in the unit, only the tuner band appears even if you press (SOURCE).*



## Memorizing only the desired stations

You can preset up to 18 FM stations (6 each for FM1, FM2, and FM3), up to 12 AM stations (6 each for AM1 and AM2) in the order of your choice.

**1 Press (SOURCE) repeatedly to select the tuner.**

**2 Press (MODE) repeatedly to select the band.**

**3 Press either side of (SEEK/AMS) to tune in the station that you want to store on the number button.**

**4 Press the desired number button ((1) to (6)) for two seconds until "MEM" appears.**
The number button indication appears in the display.

***Note***

*If you try to store another station on the same number button, the previously stored station will be erased.*

## Receiving the memorized stations

**1 Press (SOURCE) repeatedly to select the tuner.**

**2 Press (MODE) repeatedly to select the band.**

**3 Press the number button ((1) to (6)) on which the desired station is stored.**

***Tip***

*Press either side of (PRST) to receive the stations in the order they are stored in the memory (Preset Search Function).*

### If you cannot tune in a preset station

**Press either side of (SEEK/AMS) to search for the station (automatic tuning).**
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

***Note***

*If the automatic tuning stops too frequently, press (MENU), then press either side of (PRST) repeatedly until "LOCAL" (local seek mode) is displayed. Then press the (+) side of (SEEK/AMS) to select "LOCAL-ON." Press (ENTER).*
*Only the stations with relatively strong signals will be tuned in.*

***Tips***

- *When you select the "LOCAL-ON" setting, "L.SEEK" appears while the unit is searching for a station.*
- *If you know the frequency of the station you want to listen to, press and hold either side of (SEEK/AMS) until the desired frequency appears (manual tuning).*



### If FM stereo reception is poor — Monaural Mode

**1 During radio reception, press (MENU), then press either side of (PRST) repeatedly until "MONO-OFF" appears.**

**2 Press the (+) side of (SEEK/AMS) until "MONO-ON" appears.**
The sound improves, but becomes monaural ("ST" disappears).

**3 Press (ENTER).**

To return to normal mode, select "MONO-OFF" in step 2.

### Automatical reception frequency adjustment — IF AUTO function

If interference occurs, the "IF AUTO" function of this unit will automatically avoid noise and narrow the reception frequency. In such cases, some FM stereo broadcasts may become monaural. If you would like to hear such broadcasts in stereo, manually switch to the "WIDE" setting.

**1 During radio reception, press (MENU), then press either side of (PRST) repeatedly until "IF AUTO" appears.**

**2 Press the (+) side of (SEEK/AMS) until "WIDE" appears.**

**3 Press (ENTER).**

***Note***

*When you widen the frequency signal reception setting ("WIDE" mode), some interference may occur.*

## Storing the station names

### — Station Memo

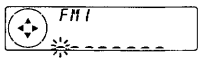
You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can assign a name of up to eight characters for a station.

### Storing the station names

**1 Tune in a station whose name you want to store.**

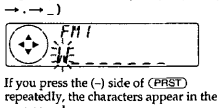
**2 Press (MENU), then press either side of (PRST) repeatedly until "NAME EDIT" appears.**

**3 Press (ENTER).**



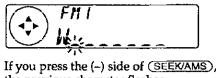

**4 Enter the characters.**

**❶ Press the (+) side of (PRST) repeatedly to select the desired characters.**
**(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → - → * → / → \ → > → < → . → _)**




If you press the (–) side of (PRST) repeatedly, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (underbar).

**❷ Press the (+) side of (SEEK/AMS) after locating the desired character.**
The next character flashes.




If you press the (–) side of (SEEK/AMS), the previous character flashes.

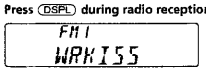
**❸ Repeat steps ❶ and ❷ to enter the entire name.**

**5** To return to the normal radio reception, press (ENTER).

*Tip*
*To erase or correct a name, enter "_" (under-bar) for each character.*

### Displaying the station name

Press (DSPL) during radio reception.




Each time you press (DSPL), the item changes as follows:

Station name* ⟷ Frequency

** If the station name of a station is not stored, "NO NAME" appears in the display for one second.*

### Erasing the station name

**1** Tune in a station whose name you want to erase.

**2** Press (MENU), then press either side of (PRST) repeatedly until "NAME DEL" appears.

**3** Press (ENTER).

**4** Press (ENTER) for two seconds.
The name is erased.
Repeat steps 1 through 4 if you want to erase other names.

**5** Press (MENU) twice.
The unit returns to the normal radio reception mode.

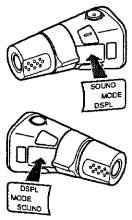
*Note*
*When you erase all of the station names, "NO NAME" appears in step 4.*

## Other Functions

You can also control the unit with a rotary commander.

## Labeling the rotary commander

Depending on how you mount the rotary commander, attach the appropriate label as shown in the illustration below.

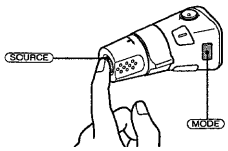





## Using the rotary commander

The rotary commander works by pressing buttons and/or rotating controls.

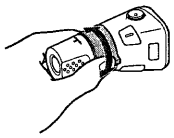
### By pressing buttons (the SOURCE and MODE buttons)




Each time you press (SOURCE), the source changes as follows:
Tuner → CD

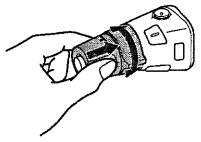
Pressing (MODE) changes the operation in the following ways:
Tuner: FM1 → FM2 → FM3 → AM1 → AM2

### By rotating the control (the SEEK/AMS control)



Rotate the control momentarily and release it to:
- Locate a specific track on a disc. Rotate and hold the control until you locate the specific point in a track, then release it to start playback.
- Tune in stations automatically. Rotate and hold the control to find a specific station.

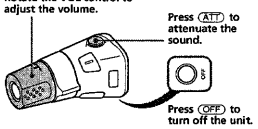
### By pushing in and rotating the control (the PRESET/DISC control)

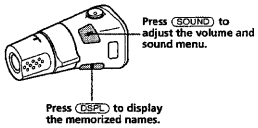


Push in and rotate the control to:
- Receive the stations memorized on the number buttons.

### Other operations

Rotate the VOL control to adjust the volume.



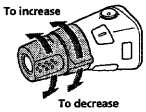




*Tip*
*If your car has no ACC (accessory) position on the ignition key switch, be sure to press (OFF) for two seconds to turn off the clock indication after turning off the engine.*

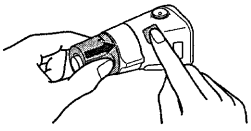


### Changing the operative direction

The operative direction of controls is factory-set as shown below.




If you need to mount the rotary commander on the right hand side of the steering column, you can reverse the operative direction.



Press (SOUND) for two seconds while pushing the VOL control.

*Tip*
*You can also change the operative direction of these controls with the unit (see "Changing the sound and display settings" on page 16).*

## Adjusting the sound characteristics

You can adjust the bass, treble, balance, and fader.
You can store the bass and treble levels independently for each source.

**1** Select the item you want to adjust by pressing (SOUND) repeatedly.
Each time you press (SOUND), the item changes as follows:
BAS (bass) → TRE (treble) → BAL (left-right) → FAD (front-rear)

**2** Adjust the selected item by pressing either side of (SEEK/AMS).
When adjusting with the rotary commander, press (SOUND) and rotate the VOL control.

*Note*
*Adjust within three seconds after selecting the item.*

## Attenuating the sound

Press (ATT) on the rotary commander.
"ATT-ON" flashes momentarily.

To restore the previous volume level, press (ATT) again.

*Tip*
*When the interface cable of a car telephone is connected to the ATT lead, the unit decreases the volume automatically when a telephone call comes in (Telephone ATT function).*



## Changing the sound and display settings

The following items can be set:

**SET (setting)**
- CLOCK (page 8)
- BEEP — to turn the beeps on or off.
- RM (Rotary Commander) — to change the operative direction of the controls of the rotary commander.
  — Select "NORM" to use the rotary commander as the factory-set position.
  — Select "REV" when you mount the rotary commander on the right side of the steering column.

**DIS (display)**
- D.INFO (Dual Information) — to display the clock and the play mode at the same time (ON).
- M.DSPL (Motion Display) — to turn the motion display on or off.
- A.SCRL (Auto Scroll) (page 10)

*Note*
*If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be disabled.*

**1** Press (MENU).

**2** Press either side of (PRST) repeatedly until the desired item appears.
Each time you press the (–) side of (PRST), the item changes as follows:
CLOCK → BEEP → RM → D.INFO → M.DSPL → A.SCRL

*Note*
*The displayed item will differ depending on the source.*

*Tip*
*You can easily switch among categories ("SET", "DIS", "PIM" (play mode), and "EDT" (edit mode)) by pressing either side of (PRST) for two seconds.*

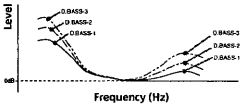
**3** Press the (+) side of (SEEK/AMS) to select the desired setting (Example: ON or OFF).

**4** Press (ENTER).
After the mode setting is complete, the display returns to normal play mode.

## Boosting the bass sound

— D-bass

You can enjoy a clear and powerful bass sound.
The D-bass function boosts the low and high frequency signal with a sharper curve than conventional bass boost.
You can hear the bass line more clearly even while the vocal volume remains the same. You can emphasize and adjust the bass sound easily with the D-BASS control.




### Adjusting the bass curve

Press (D-BASS) repeatedly until the desired bass level (1, 2, or 3) appears in the display.

To cancel, select "D.BASS-OFF."

*Note*
*If the bass sound becomes distorted, select a less effective setting of "D.BASS" or adjust the volume.*

# Connections

## Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Be careful not to pinch any wires between the screw and the body of the car, or this unit, or between any moving parts such as the seat railing, etc.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all ground wires to a common earth surface.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.
- The use of optical instruments with this product will increase eye hazard.

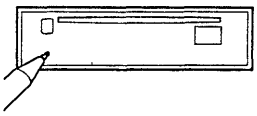
## Warning when installing in a car without ACC (accessory) position on the ignition key switch

**Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.**

When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

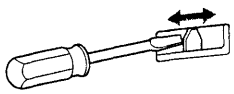
## Reset button

When the installation and connections are completed, be sure to press the reset button with a ball-point pen, etc.



## Frequency select switch (CDX-C4005 only)

The AM (FM) tuning interval is factory-set to the 10 K (200 K) position.
Make sure that the swich on the bottom of the unit is set to the 9 K (50 K) position before making connections.



*Note*
*When you change the position of the switch to the 9 K (50 K) position, be sure to press the reset buttons after the connections are completed.*

# Connexions

## Précautions

- Cet appareil est conçu pour fonctionner sur tension continue de 12 V avec masse négative.
- Veillez à ne coincer aucun fil entre la vis et la carrosserie ou cet appareil ou aucun élément mobile comme les glissières du siège, etc.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**
- Brancher le câble jaune à un circuit libre de la voiture dont la capacité nominale est supérieure à la capacité du fusible de l'appareil. Si vous branchez cet appareil en série avec d'autres composants stéréo, le circuit de la voiture auquel ils sont raccordés doit afficher une capacité nominale supérieure à la somme des capacités individuelles de chaque composant. S'il n'y a pas de circuits de voiture affichant une capacité égale à la capacité du fusible de l'appareil, brancher l'appareil directement à la batterie. Si aucun circuit de voiture n'est disponible pour connecter cet appareil, brancher l'appareil à un circuit de voiture supérieur à la capacité du fusible de l'appareil de telle sorte que si l'appareil grille son fusible, aucun autre circuit ne soit coupé.

## Avertissement en cas d'installation dans une voiture dont le contact ne comporte pas de position ACC (accessoires)

**Appuyez sur la touche (OFF) de l'appareil pendant deux secondes pour désactiver l'affichage de l'horloge après avoir coupé le moteur.**

Lorsque vous appuyez brièvement sur (OFF), l'affichage de l'horloge ne s'éteint pas et cela provoque une usure de la batterie.

## Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou un objet pointu.

## Sélecteur de fréquence (CDX-C4005 seulement)

L'intervalle de syntonisation AM (FM) est réglé par défaut sur la position 10 k (200 k).
Assurez-vous que le sélecteur situé sur le dessous de l'appareil est réglé sur 9 K (50 K) avant d'établir les connexions.

*Remarque*
*Lorsque vous amenez le sélecteur sur la position 9 K (50 K), n'oubliez pas d'appuyer sur les touches de réinitialisation après avoir terminé les connexions.*

## Connection diagram / Schémas de connexion

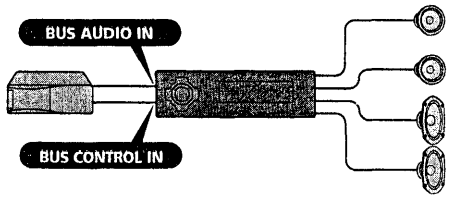
**Equipment used in illustrations (not supplied)**
**Appareils utilisés dans les illustrations (non fournis)**

**Front speaker**
**Haut-parleur avant**

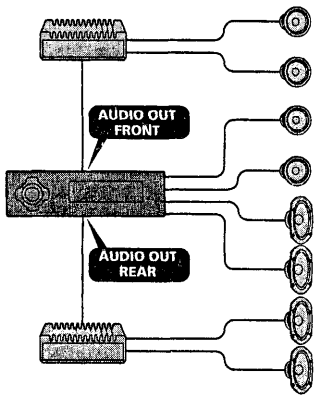
**Rear speaker**
**Haut-parleur arrière**

**Power amplifier**
**Amplificateur de puissance**

I



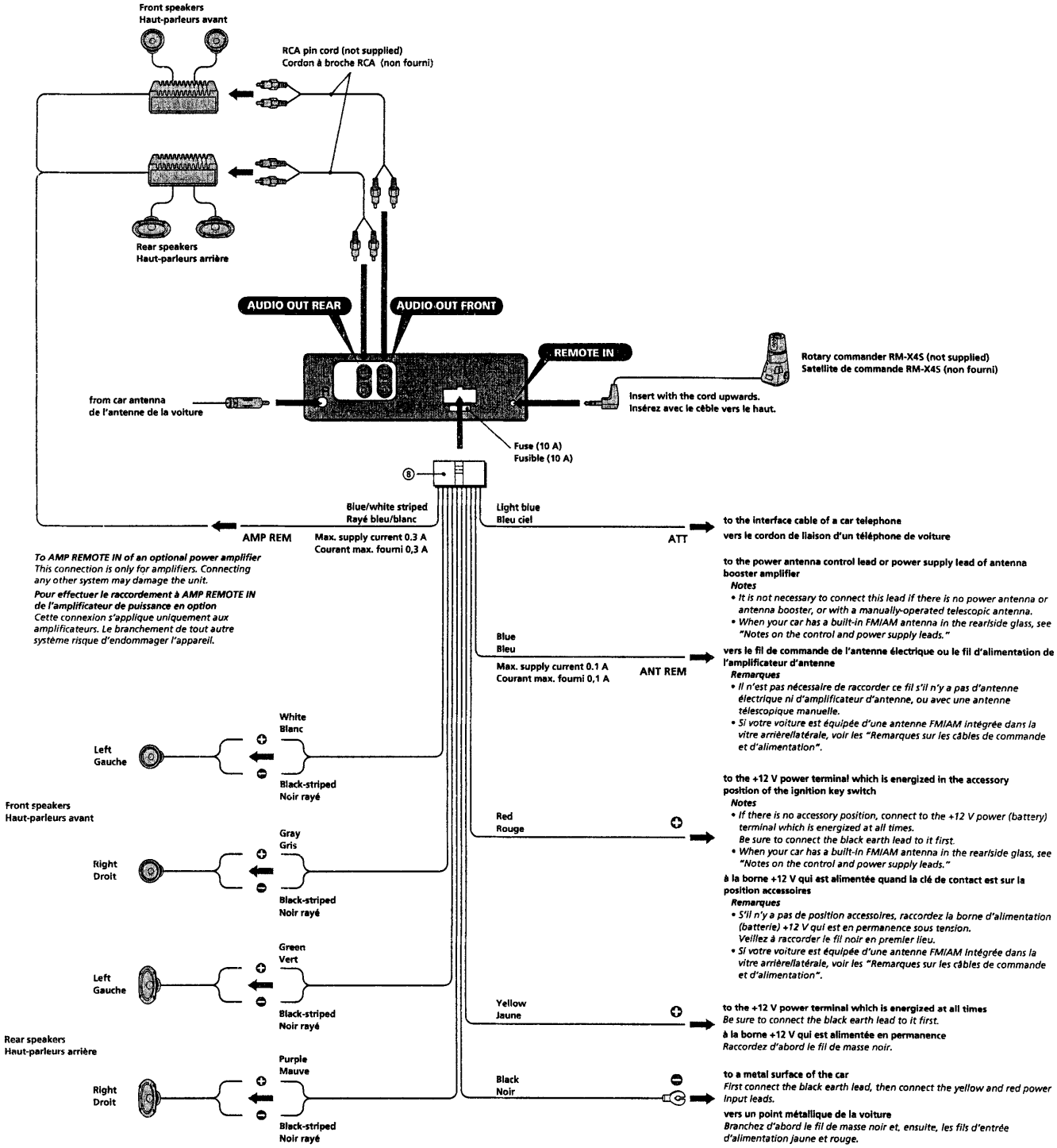

II




*Notes*
- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

*Remarques*
- *Raccordez d'abord le fil de masse avant de connecter l'amplificateur.*
- *Si vous raccordez un amplificateur de puissance et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est désactivé.*

## Connection example
## Exemple de connection


Front speakers
Haut-parleurs avant
RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
Rear speakers
Haut-parleurs arrière
AUDIO OUT REAR
AUDIO OUT FRONT
REMOTE IN
Rotary commander RM-X4S (not supplied)
Satellite de commande RM-X4S (non fourni)
from car antenna
de l'antenne de la voiture
Insert with the cord upwards.
Insérez avec le câble vers le haut.
Fuse (10 A)
Fusible (10 A)
Blue/white striped
Rayé bleu/blanc
AMP REM
Max. supply current 0.3 A
Courant max. fourni 0,3 A
Light blue
Bleu ciel
ATT
to the interface cable of a car telephone
vers le cordon de liaison d'un téléphone de voiture
to the power antenna control lead or power supply lead of antenna booster amplifier
Notes
• It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.
• When your car has a built-in FM/AM antenna in the rearside glass, see "Notes on the control and power supply leads."
Blue
Bleu
Max. supply current 0.1 A
Courant max. fourni 0,1 A
ANT REM
vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
Remarques
• Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir les "Remarques sur les câbles de commande et d'alimentation".
To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
Pour effectuer le raccordement à AMP REMOTE IN de l'amplificateur de puissance en option
Cette connexion s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
White
Blanc
Left
Gauche
Black-striped
Noir rayé
Front speakers
Haut-parleurs avant
Gray
Gris
Right
Droit
Black-striped
Noir rayé
Red
Rouge
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Notes
• If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
Be sure to connect the black earth lead to it first.
• When your car has a built-in FM/AM antenna in the rearside glass, see "Notes on the control and power supply leads."
à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
• S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est en permanence sous tension.
Veillez à raccorder le fil noir en premier lieu.
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir les "Remarques sur les câbles de commande et d'alimentation".
Green
Vert
Left
Gauche
Black-striped
Noir rayé
Yellow
Jaune
to the +12 V power terminal which is energized at all times
Be sure to connect the black earth lead to it first.
à la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.
Rear speakers
Haut-parleurs arrière
Purple
Mauve
Right
Droit
Black-striped
Noir rayé
Black
Noir
to a metal surface of the car
First connect the black earth lead, then connect the yellow and red power input leads.
vers un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

*Notes on the control and power supply leads*
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rearside glass, it is necessary to connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

*Memory hold connection*
*When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.*

*Notes on speaker connection*
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

*Remarques sur les câbles de commande et d'alimentation*
- *Le fil de commande d'antenne électrique (bleu) assure une alimentation de +12 V CC lorsque vous mettez le syntoniseur sous tension.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, il est nécessaire de raccorder le fil de commande de l'antenne électrique (bleu) ou le fil d'entrée d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut être utilisée avec cet appareil.*

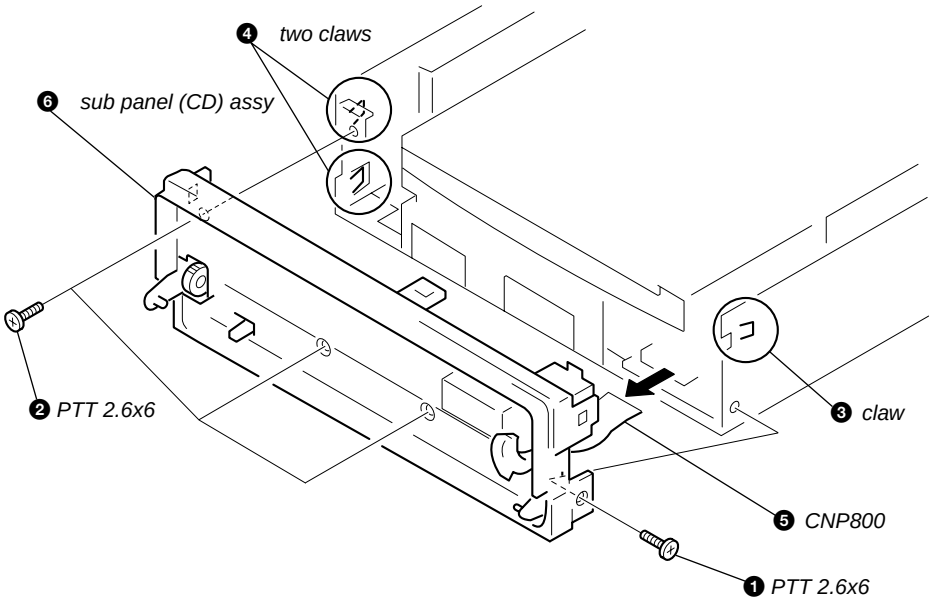
*Connexion pour la conservation de la mémoire*
*Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.*

*Remarques sur la connexion des haut-parleurs*
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.*

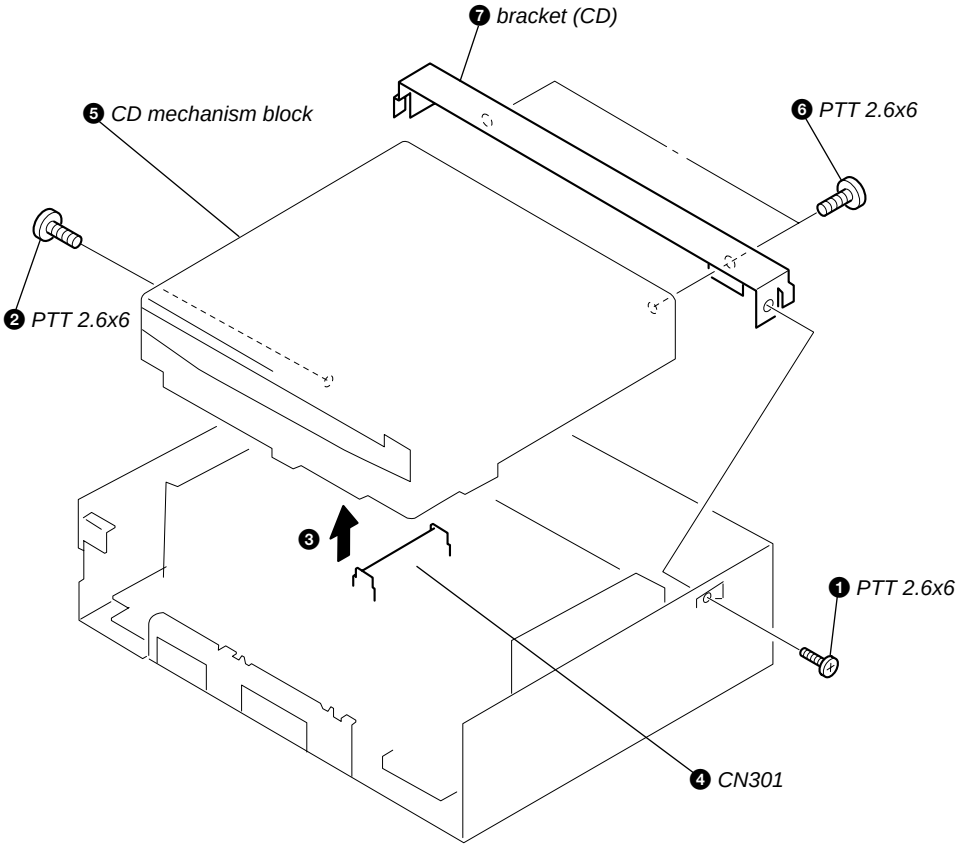
# SECTION 2
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

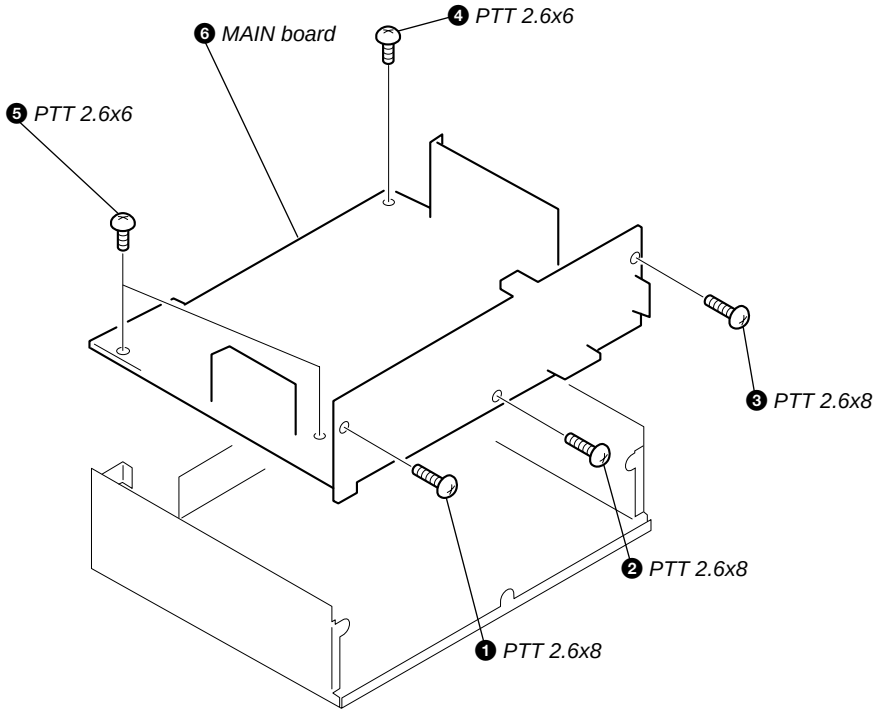
## 2-1. SUB PANEL (CD) ASSY



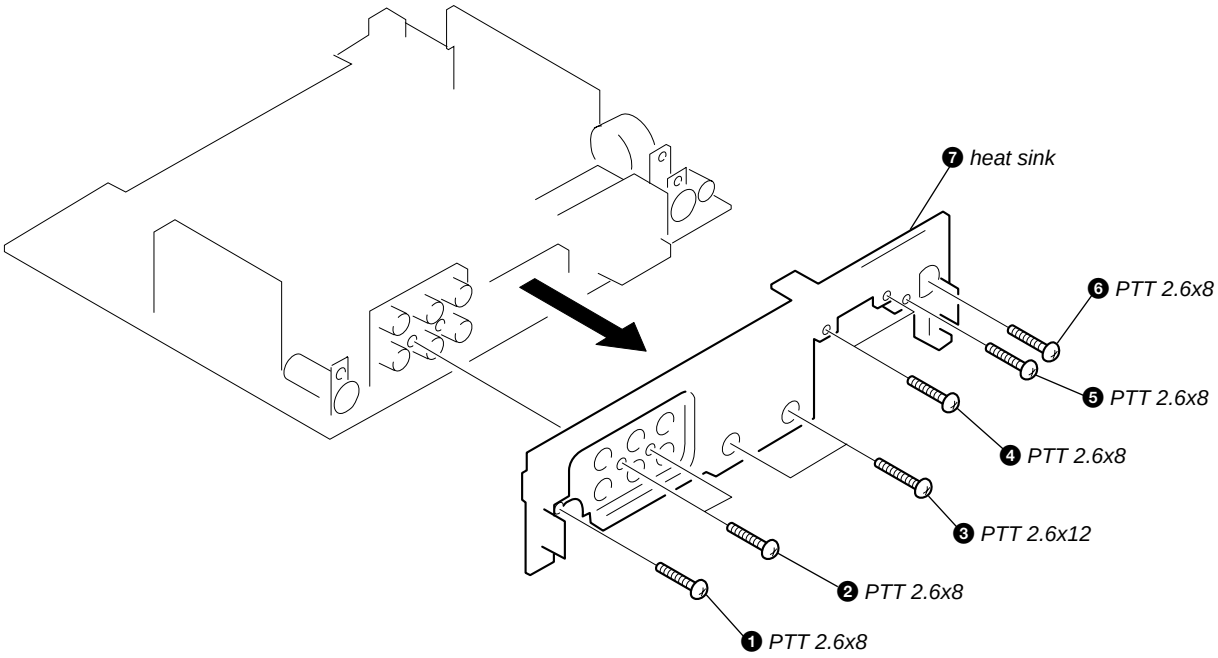

## 2-2. CD MECHANISM BLOCK



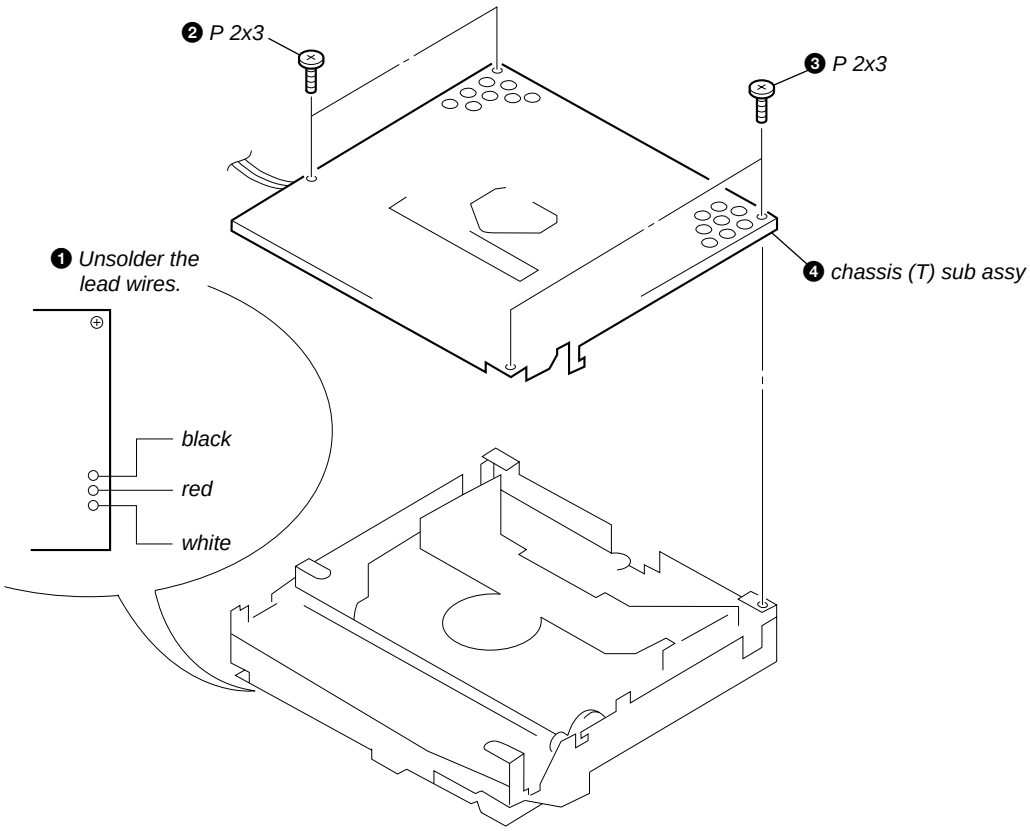
## 2-3. MAIN BOARD



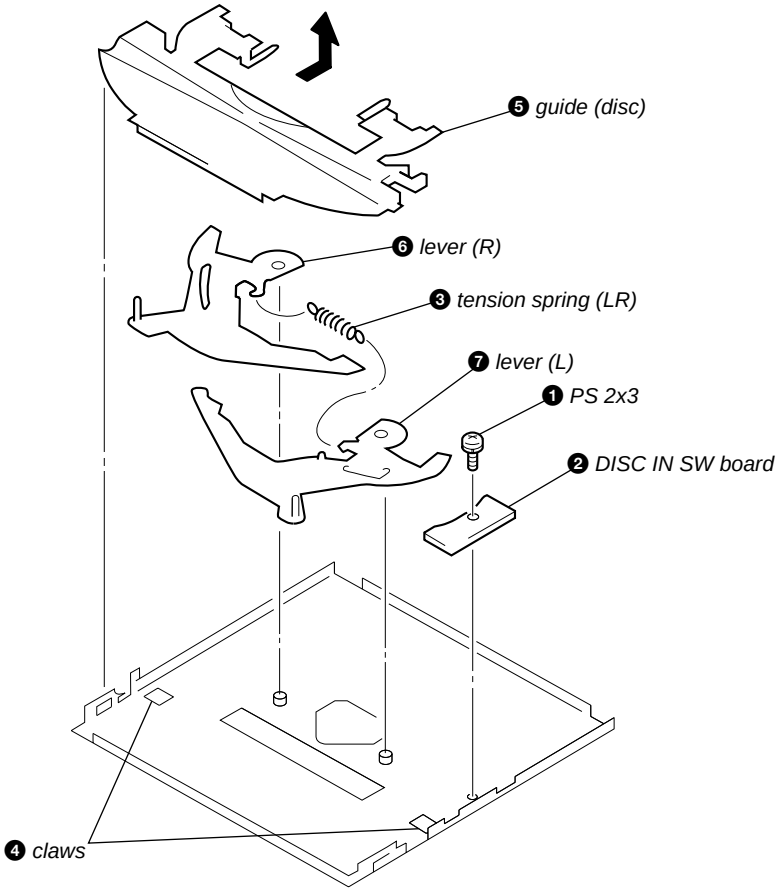

## 2-4. HEAT SINK



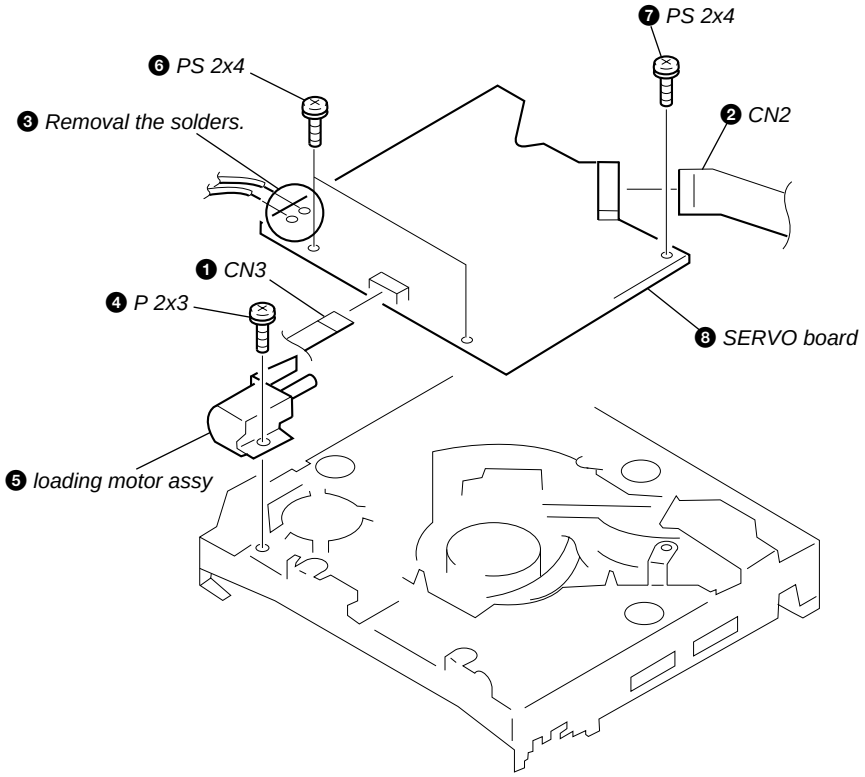
## 2-5. CHASSIS (T) SUB ASSY




## 2-6. LEVER SECTION



## 2-7. SERVO BOARD




## 2-8. SHAFT ROLLER ASSY

• When installing, take note of the positions arm (roller) and washers. (Fig. 1)

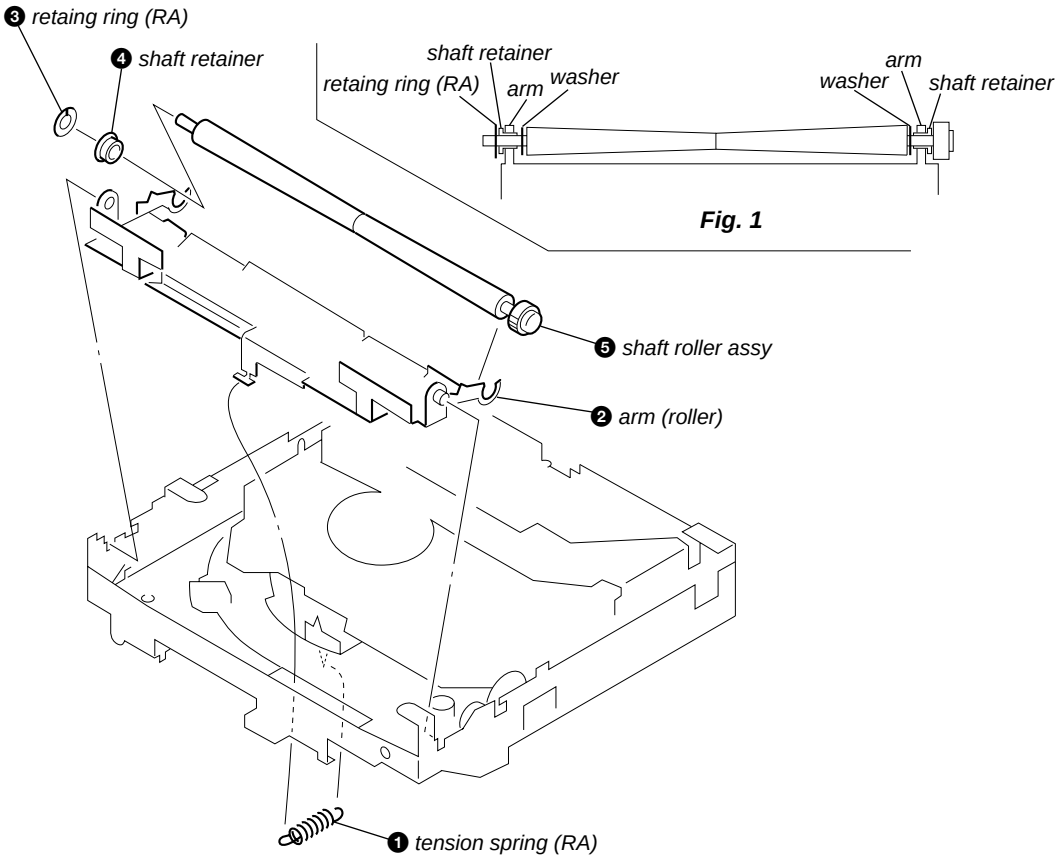
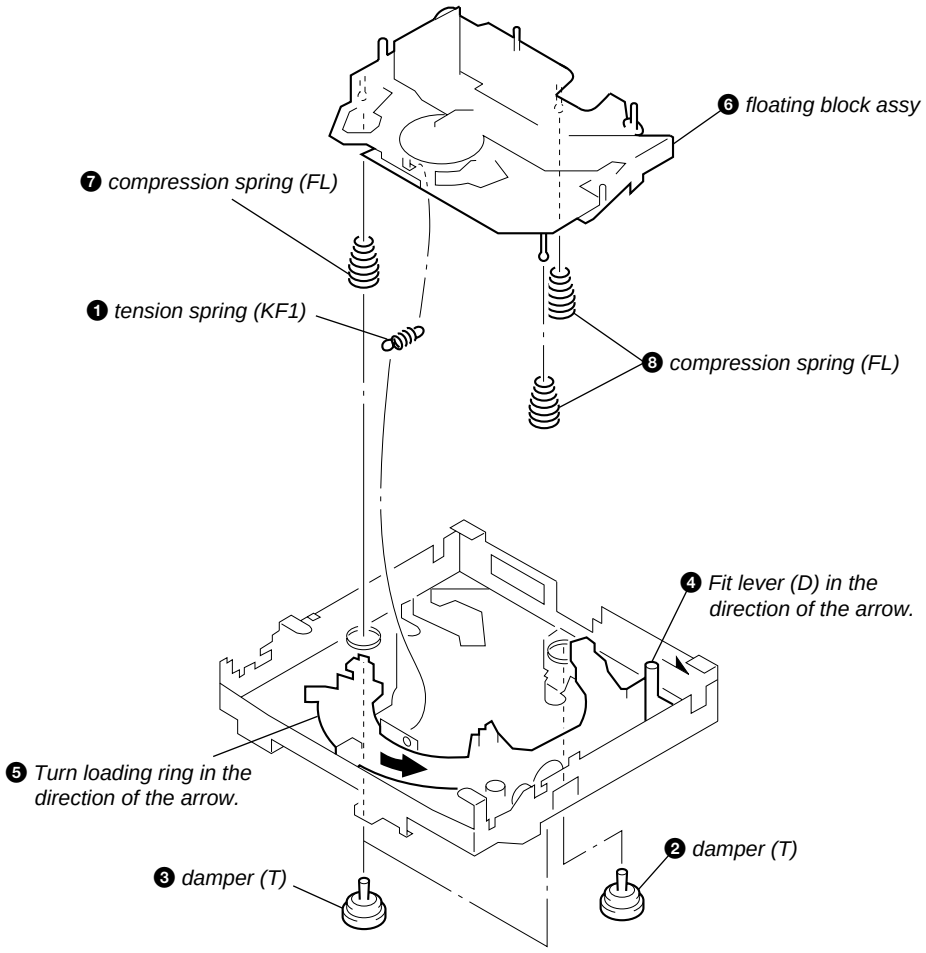
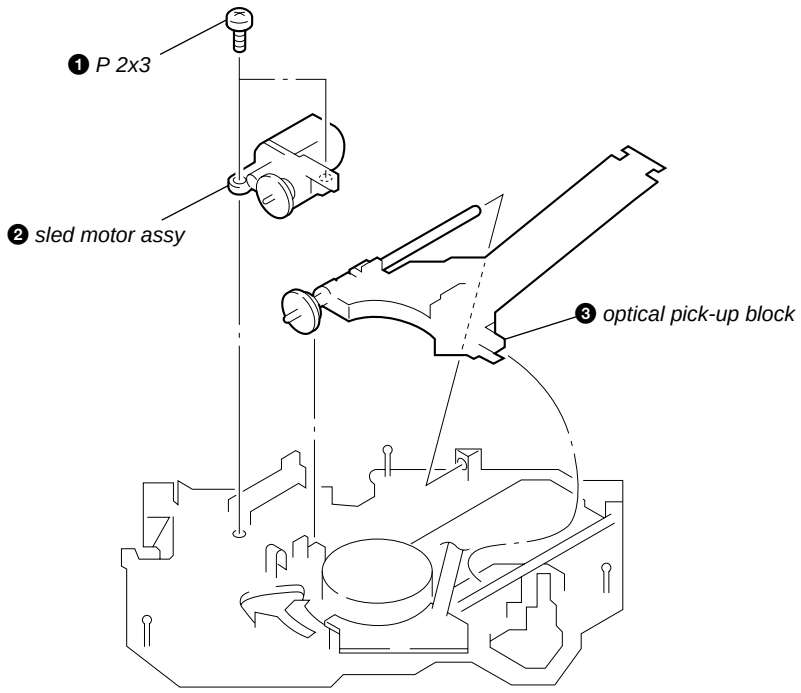



***Fig. 1***

## 2-9. FLOATING BLOCK ASSY


❻ floating block assy
❼ compression spring (FL)
❶ tension spring (KF1)
❽ compression spring (FL)
❹ Fit lever (D) in the direction of the arrow.
❺ Turn loading ring in the direction of the arrow.
❷ damper (T)
❸ damper (T)

## 2-10. OPTICAL PICK-UP BLOCK



# SECTION 3
# DIAGRAMS

## 3-1. IC PIN DESCRIPTIONS

**• IC501 CXD2598Q (DIGITAL SERVO, DIGITAL SIGNAL PROCESSOR) (SERVO BOARD)**

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | DVDD | — | Digital power supply pin |
| 2 | DVSS | — | Digital ground |
| 3 | SOUT | O | Servo brock serial data output (Not used.) |
| 4 | SOCK | O | Servo brock serial data read clock output (Not used.) |
| 5 | XOLT | O | Servo brock serial data latch output (Not used.) |
| 6 | SQSO | O | Sub Q 80 bit, PCM peak and level data output. CD TEXT data output |
| 7 | SQCK | I | Clock input from SQSO read output. |
| 8 | SCSY | I | Fixed at “L”. |
| 9 | SBSO | O | Serial output of sub-P to W. (Not used.) |
| 10 | EXCK | I | Clock input from SBSO read output. (Fixed at “L”) |
| 11 | XRST | I | System reset (“L”: Reset) |
| 12 | STSM | I | System mute input (Fixed at “L”) |
| 13 | DATA | I | Serial data input from CPU. |
| 14 | XLAT | I | Latch input from CPU. Latch serial data at the falling edge. |
| 15 | CLOK | I | Serial data transfer clock input from CPU. |
| 16 | SENS | O | SENS output for CPU. |
| 17 | SCLK | I | Clock input from SENS serial data read. |
| 18 | ATSK | I/O | Input/output for anti-shock. |
| 19 | WFCK | O | WFCK (Write Flame Clock) output (Not used.) |
| 20 | XUGF | O | XUGF output (Not used.) |
| 21 | XPCK | O | XPCK output (Not used.) |
| 22 | GFS | O | GFS output |
| 23 | C2PO | O | C2PO output (Not used.) |
| 24 | SCOR | O | “H” output at either detection, sub code sync S0 or S1. |
| 25 | C4M | O | 4.2336 MHz output (Not used.) |
| 26 | WDCK | O | Word clock input f=2Fs (Not used.) |
| 27 | COUT | I/O | Track number count signal input/output (Not used.) |
| 28 | MIRR | I/O | Mirror signal input/output (Not used.) |
| 29 | DVSS | — | Digital ground |
| 30 | DVDD | — | Digital power supply pin |
| 31 | DFCT | I/O | Diffect signal input/output (Not used.) |
| 32 | FOK | I/O | Focus OK signal output |
| 33 | PWM1 | I | External control input of spindle motor. |
| 34 | LOCK | I/O | Lock signal input/output |
| 35 | MDP | O | Servo control output of spindle motor. |
| 36 | SSTP | I | Disc most inner track detection signal input |
| 37 | FSTIO | I/O | 2/3 frequency division output of pins ⑧⑥ and ⑧⑦. (Not used.) |
| 38 | SFDR | O | Sled drive output |
| 39 | SRDR | O | Sled drive output |
| 40 | TFDR | O | Tracking drive output |
| 41 | TRDR | O | Tracking drive output |
| 42 | FFDR | O | Focus drive output |
| 43 | FRDR | O | Focus drive output |
| 44 | DVDD | — | Digital power supply pin |
| 45 | DVSS | — | Digital ground |
| 46 | TEST | I | Test pin (Fixed at “L”.) |
| 47 | TES1 | I | Test pin (Fixed at “L”.) |
| 48 | XTSL | I | X’tal select input (“L”: 16.9344 MHz, “H”: 33.8688 MHz) |
| 49 | VC | I | Center voltage input |
| 50 | FE | I | Focus error signal input |
| 51 | SE | I | Sled error signal input |

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 52 | TE | I | Tracking error signal input |
| 53 | CE | I | Center servo analog input |
| 54 | RFDC | I | RF signal input |
| 55 | ADIO | O | Test pin (Not used.) |
| 56 | AVSSO | — | Analog ground |
| 57 | IGEN | I | Constant current input from OP amplifier. |
| 58 | AVDDO | — | Analog ground |
| 59 | ASYO | O | EFM full-swing output (“L”: VSS, “H”: VDD) |
| 60 | ASYI | I | Asymmetry comparate voltage input |
| 61 | RFAC | I | EFM signal input |
| 62 | AVSS3 | — | Analog ground |
| 63 | CLTV | I | VCO control voltage input from master. |
| 64 | FILO | O | Filter output for master PLL (slave=digital PLL) |
| 65 | FILI | I | Filter input from master PLL. |
| 66 | PCO | O | Charge pump output for master PLL. |
| 67 | AVDD3 | — | Analog power supply pin |
| 68 | BIAS | I | Asymmetry circuit constant current input |
| 69 | VCTL | I | VCO2 control input from wideband EFM PLL. (Not used.) |
| 70 | V16M | O | VCO2 oscillator output for wideband EFM PLL. (Not used.) |
| 71 | VPCO | O | Charge pump output for wideband EFM PLL. (Not used.) |
| 72 | DVSS | — | Digital ground |
| 73 | MD2 | I | Digital out ON/OFF control input (“L”: OFF, “H”: ON) |
| 74 | DOUT | O | Digital out output |
| 75 | ASYE | I | Asymmetry circuit ON/OFF input (“L”: OFF, “H”: ON) |
| 76 | DVDD | — | Digital power supply pin |
| 77 | LRCK | O | D/A interface LR clock output (f=Fs) |
| 78 | LRCKI | I | D/A interface LR clock input |
| 79 | PCMD | O | D/A interface serial data output (2’s COMP, MSB fast) |
| 80 | PCMD | I | D/A interface serial data input (2’s COMP, MSB fast) |
| 81 | BCK | O | D/A interface bit clock output |
| 82 | BCKI | I | D/A interface bit clock input |
| 83 | EMPH | O | Emphasis ON/OFF signal output |
| 84 | EMPHI | I | Emphasis ON/OFF signal input (“H”: ON, “L”: OFF) |
| 85 | XVDD | — | Power supply for master clock. |
| 86 | XTAI | I | X’tal oscillator input from master clock (16.9344 MHz). |
| 87 | XTAO | O | X’tal oscillator output for master clock (16.9344 MHz). |
| 88 | XVSS | — | Ground pin for master clock. |
| 89 | AVDD1 | — | Analog power supply pin |
| 90 | AOUT1 | O | Lch analog output |
| 91 | AIN1 | I | Lch OPAMP input |
| 92 | LOUT1 | O | Lch LINE output |
| 93 | AVSS1 | — | Analog ground |
| 94 | AVSS2 | — | Analog ground |
| 95 | LOUT2 | O | Rch LINE output |
| 96 | AIN2 | I | Rch OPAMP input |
| 97 | AOUT2 | O | Rch analog output |
| 98 | AVDD2 | — | Analog power supply pin |
| 99 | RMUT | O | Rch “0” detect Flug (Not used.) |
| 100 | LMUT | O | Lch “0” detect Flug (Not used.) |

**• IC5 CXP84640-072Q (CD SYSTEM CONTROL) (SERVO BOARD)**

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | ITRPT | — | Not used in this set. |
| 2, 3 | — | — | Not used in this set. |
| 4, 5 | NCO | — | Not used in this set. |
| 6 | OPEN | I | Front panel open detection input |
| 7 | CLOSE | O | Front panel close control output |
| 8 | LINKOFF | I | Bus interface link input |
| 9 | NCO | — | Not used in this set. |
| 10 | $\overline{\text{D SW}}$ | I | Down switch input (SW4) |
| 11 | SSTP | I | Limit switch input (SW3) |
| 12, 13 | NCO | — | Not used in this set. |
| 14, 15 | — | — | Not used in this set. |
| 16 | EMPH O | O | De-emphasis ON/OFF control output |
| 17 | CDMON | O | CD mechanism deck power control output |
| 18 | CD ON | O | CD power control output |
| 19 | A MUT | O | System attenuate control output |
| 20 | $\overline{\text{LD ON}}$ | O | Laser power ON/OFF control output |
| 21 | $\overline{\text{CD RST}}$ | O | CD system reset output |
| 22 | HOLD | O | Hold switch output |
| 23 | AGC CONT | O | AGC control output |
| 24 | — | — | Not used in this set. |
| 25 | PH3 | I | Not used in this set. |
| 26 | $\overline{\text{TSTIN0}}$ | I | Not used in this set. |
| 27 | $\overline{\text{TSTIN1}}$ | I | Not used in this set. |
| 28 | $\overline{\text{TST.CLV}}$ | I | Not used in this set. |
| 29 | NCO | — | Not used in this set. |
| 30 | $\overline{\text{RESET}}$ | I | System reset input (“L”=Reset) |
| 31 | X IN | I | X’tal oscillator input from system clock. (10 MHz) |
| 32 | $\overline{\text{X OUT}}$ | O | X’tal oscillator output for system clock. (10 MHz) |
| 33 | GND | — | Analog ground |
| 34 | $\overline{\text{XT OUT}}$ | O | Not used in this set. |
| 35 | XT IN | I | Not used in this set. |
| 36 | AVSS | — | A/D converter ground |
| 37 | AVREF | I | A/D converter reference voltage input |
| 38 | TEP L | I | Not used in this set. |
| 39 | TEP H | I | Not used in this set. |
| 40 | SLED– | I | Sled drive input |
| 41 | PH2 | I | Not used in this set. |
| 42 | SEK/SMET | I | Fixed at “H” in this set. |
| 43 | GFS/MNT2 SEL | I | Fixed at “H” in this set. |
| 44 | SC-JIG ON/OFF | I | Fixed at “H” in this set. |
| 45 | SCLK | O | CD-TEXT data read clock output |
| 46 | LOCK | I/O | Lock signal input/output |
| 47 | — | — | Not used in this set. |
| 48 | SCK2 | O | Sub Q read clock output |
| 49 | SI2 | I | Sub Q 80 bit, PCM peak and level data 16 bit input. |
| 50 | — | — | Not used in this set. |
| 51 | BUS CLK | I/O | Bus system serial clock input/output |
| 52 | BUS SI | I | Bus system serial interface input |
| 53 | BUS SO | O | Bus system serial interface output |
| 54 | F OK | I | Focus OK signal input |
| 55 | GFS | I | GFS signal detection input |
| 56 | TEST MODE | I | Fixed at “H” in this set. |

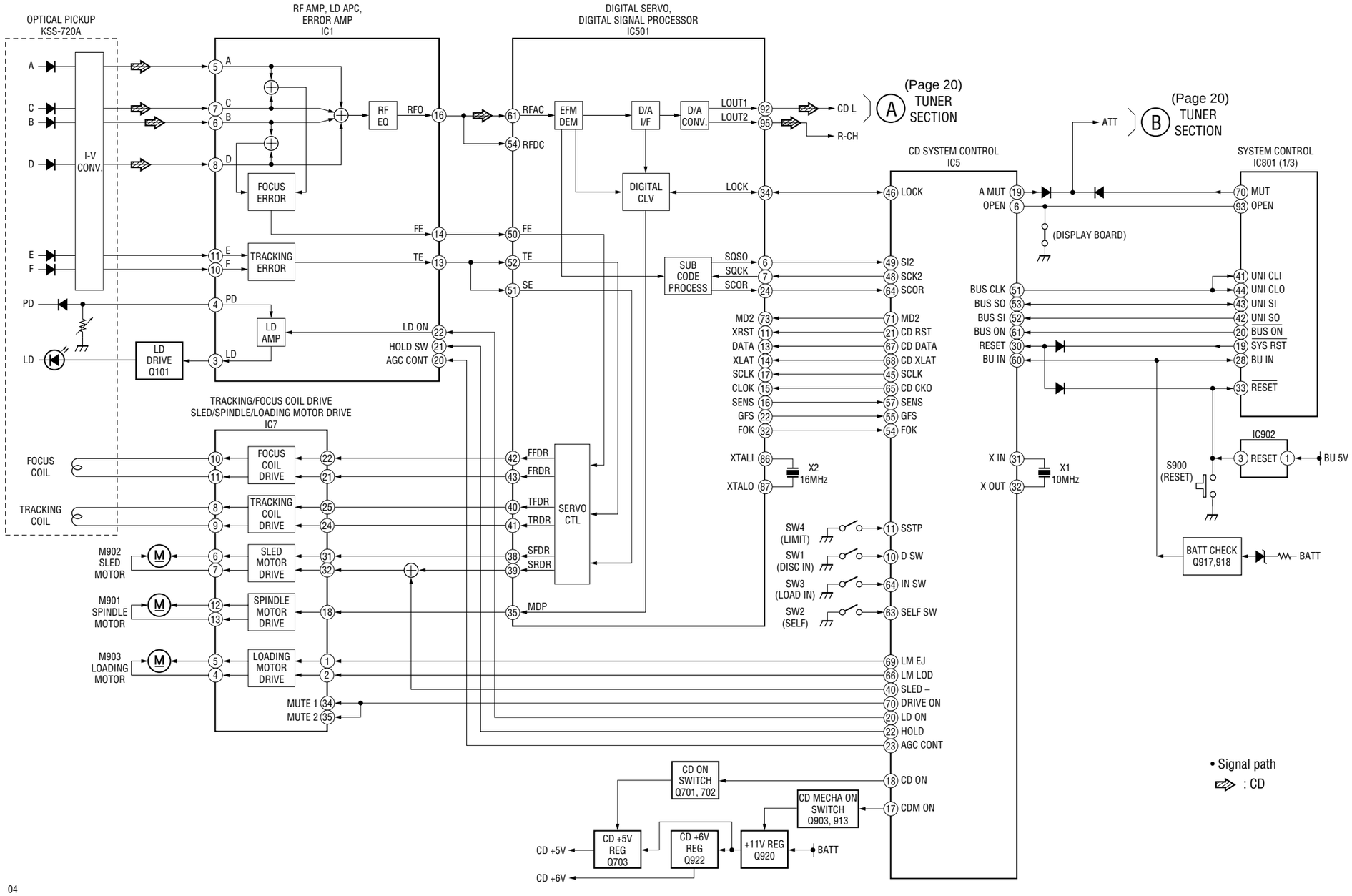
| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 57 | SENS | I | SENS signal input |
| 58 | — | — | Not used in this set. |
| 59 | — | — | Not used in this set. |
| 60 | BU.IN | I | Back-up power detection input |
| 61 | $\overline{\text{BUSON}}$ | I | Bus on control input |
| 62 | $\overline{\text{IN SW}}$ | I | Disc in switch input (SW1) |
| 63 | $\overline{\text{SELF SW}}$ | I | Self switch input (SW2) |
| 64 | SCOR | O | Sub-code sync output |
| 65 | CD-CKO | O | CD signal process serial clock input |
| 66 | LM LOD | O | Loading motor control output |
| 67 | CD DATA | O | CD signal process serial data output |
| 68 | CD-XLAT | O | CD signal process serial data latch output |
| 69 | LM-EJ | O | Loading motor control output |
| 70 | DRV-OE | O | Focus/tracking coil/sled motor control output |
| 71 | MD2 | O | Digital out ON/OFF control output (“L”: OFF, “H”: ON) |
| 72 | VDD | — | Power supply pin |
| 73 | NIH | I | Fixed at “H” in this set. |
| 74 | V/Z | I | Fixed at “H” in this set. |
| 75 | PH1 | I | Not used in this set. |
| 76 | — | — | Not used in this set. |
| 77 | DOUT-SEL | I | Fixed at “H” in this set. |
| 78 – 80 | — | — | Not used in this set. |

**• IC801 MN101C49KTB (SYSTEM CONTROL) (MAIN BOARD)**

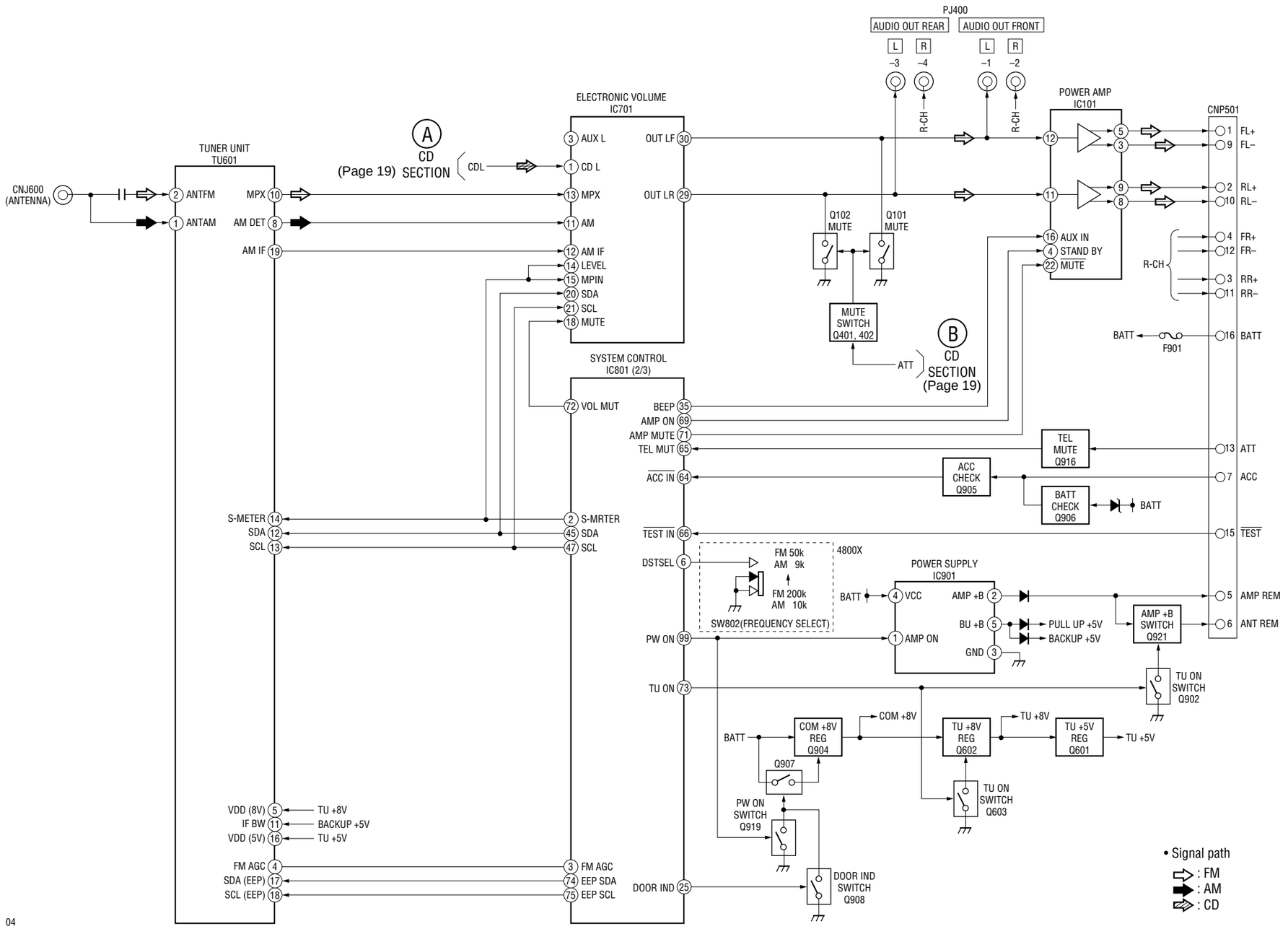
| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | VREF– | — | Ground for A/D converter power supply |
| 2 | S METER | I | S meter voltage detect signal input |
| 3 | FM AGC | I | FM auto gain control signal input |
| 4 | KEY IN1 | I | KEY signal input |
| 5 | KEY IN0 | I | KEY signal input |
| 6 | DSTSEL | I | 4000X/4005: Not used. 4800X: Frequency select signal input |
| 7 | RC IN0 | I | Rotary commander signal input |
| 8 | FUNC SEL | I | Model function selection pin |
| 9 | NIL | — | Ground |
| 10 | VREF+ | — | A/D converter power supply |
| 11 | VDD | — | Power supply (+5 V) input pin |
| 12 | OSC OUT | O | High speed clock signal output (18.432 MHz) |
| 13 | OSC IN | I | High speed clock signal input (18.432 MHz) |
| 14 | VSS | — | Ground for power supply |
| 15 | XI | I | Low speed clock signal input (32 kHz) |
| 16 | XO | O | Low speed clock signal output (32 kHz) |
| 17 | MMOD | — | Not used. (Fixed at “L”.) Memory mode select signal input |
| 18 | RC IN1 | I | Rotary commander shift key signal input |
| 19 | $\overline{\text{SYSRST}}$ | O | System reset signal output |
| 20 | $\overline{\text{BUS ON}}$ | O | Bus on control signal output |
| 21 | LCD DATA | O | LCD serial data signal output |
| 22 | LCD CE | O | LCD chip enable signal output |
| 23 | LCD CLK | O | LCD serial clock signal output |
| 24 | ILL ON | O | Illumination power supply control signal output |
| 25 | DOOR IND | O | Control signal output for power on sub panel when open to front panel |
| 26 | KEY ACK | I | Key active interrupt detect signal input |
| 27 | $\overline{\text{NOSE}}$ | I | Front panel attachment detection input |
| 28 | BU IN | I | Back up power supply setect signal input |
| 29 | SIRCS | I | Remote control signal input |
| 30, 31 | NC | — | Not used. (Fixed at “L”.) |
| 32 | RAM | — | Not used. |
| 33 | $\overline{\text{RESET}}$ | I | Reset signal input |
| 34 | NC | — | Not used. |
| 35 | BEEP | O | Beep signal input |
| 36 | NC (FUNC SEL) | I | Model function selection pin |
| 37 | NC (FUNC SEL) | I | Model function selection pin |
| 38 – 40 | NC | — | Not used. |
| 41 | UNI CLI | I | Bus system serial clock signal input |
| 42 | UNI SO | O | Bus system serial interface signal output |
| 43 | UNI SI | I | Bus system serial interface signal input |
| 44 | UNI CLO | O | Bus system serial clock signal output |
| 45 | SDA | I/O | I2C bus serial data signal input/output |
| 46 | NC | — | Not used. |
| 47 | SCL | O | I2C bus serial clock signal output |
| 48, 49 | NC | — | Not used. |
| 50 | LOCK | I | Check when remove to lock of MDNO CLV SERVO |
| 51 – 63 | NC | — | Not used. |
| 64 | $\overline{\text{ACC IN}}$ | I | Accessory power supply voltage detection input |
| 65 | TEL MUT | I | Telephone attenuate detect signal input |
| 66 | $\overline{\text{TEST IN}}$ | I | Test mode setting detect first stage signal input |
| 67 | ANT CUT | — | Not used. |
| 68 | NC | — | Not used. |

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 69 | AMP ON | O | Power supply on/off control signal output |
| 70 | MUT | O | System attenuate control signal output |
| 71 | AMP MUT | O | Power amp attenuate control signal output |
| 72 | VOL MUT | O | Mute control signal output for electrical volume |
| 73 | TU ON | O | Tuner attenuate signal output |
| 74 | EEP SDA | I/O | Tuner EEPROM serial data signal input/output |
| 75 | EEP SCL | O | Runer EEPROM serial clock signal output |
| 76 | IF BW | I | Not used. |
| 77 | NC | — | Not used. Tuner switch VCO level shift signal input |
| 78 | NC | — | Not used. |
| 79 | REIN1 | I | Rotary encoder signal input |
| 80 | REIN0 | I | Rotary encoder signal input |
| 81 | $\overline{\text{AD ON}}$ | O | Power control output for A/D conversion |
| 82 – 92 | NC | — | Not used. |
| 93 | OPEN | I | Front panel open/close condition signal input |
| 94 – 98 | NC | — | Not used. |
| 99 | PW ON | O | System power supply control signal output |
| 100 | NC | — | Not used. |

## 3-2. BLOCK DIAGRAM — CD SECTION —

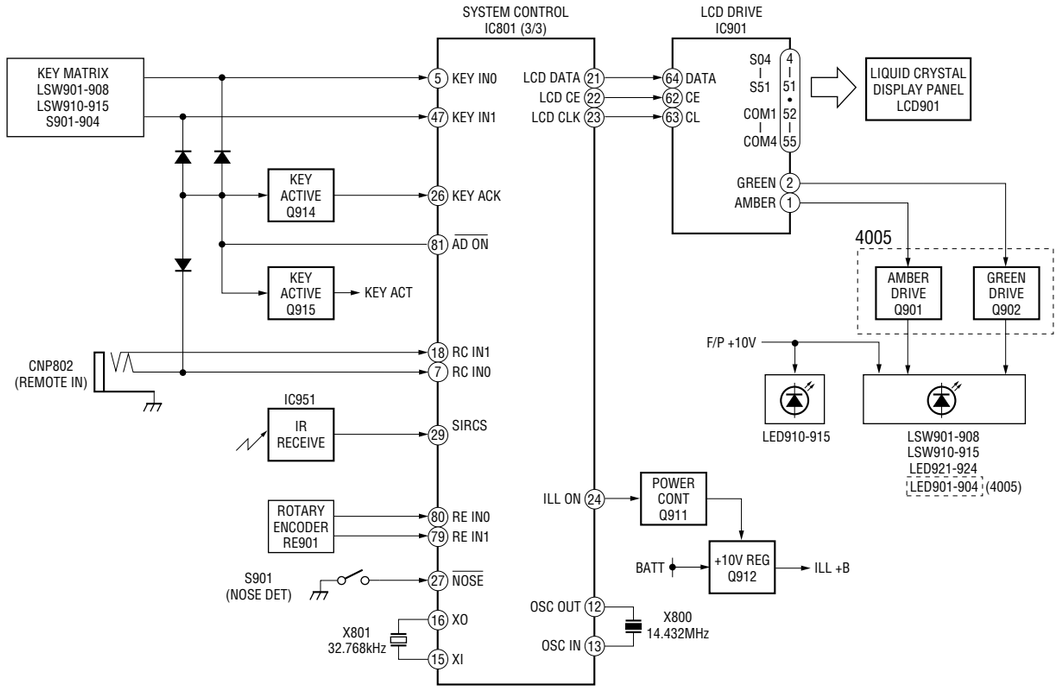


### 3-3. BLOCK DIAGRAM — TUNER SECTION —

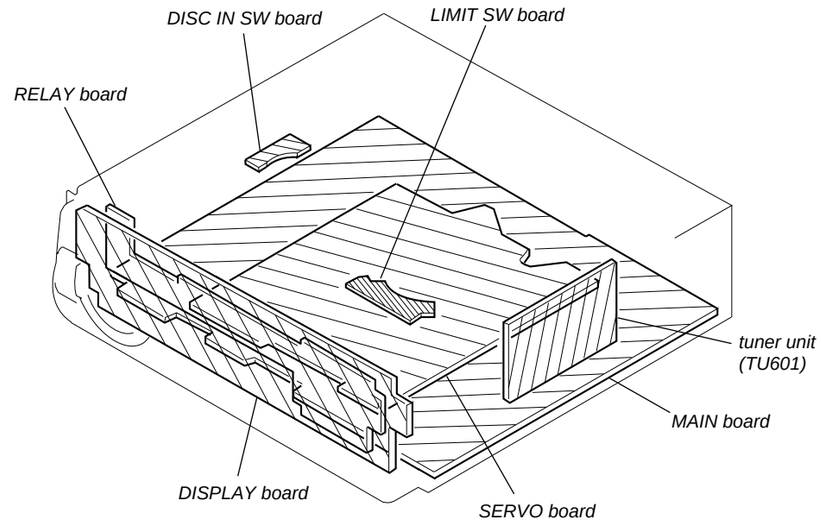



04

## 3-4. BLOCK DIAGRAM — DISPLAY SECTION —




## 3-5. CIRCUIT BOARDS LOCATION



**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**
**(In addition to this, the necessary note is printed in each block.)**

**for schematic diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
- ▭ : panel designation.

| **Note:** | **Note:** |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. |

- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : CD

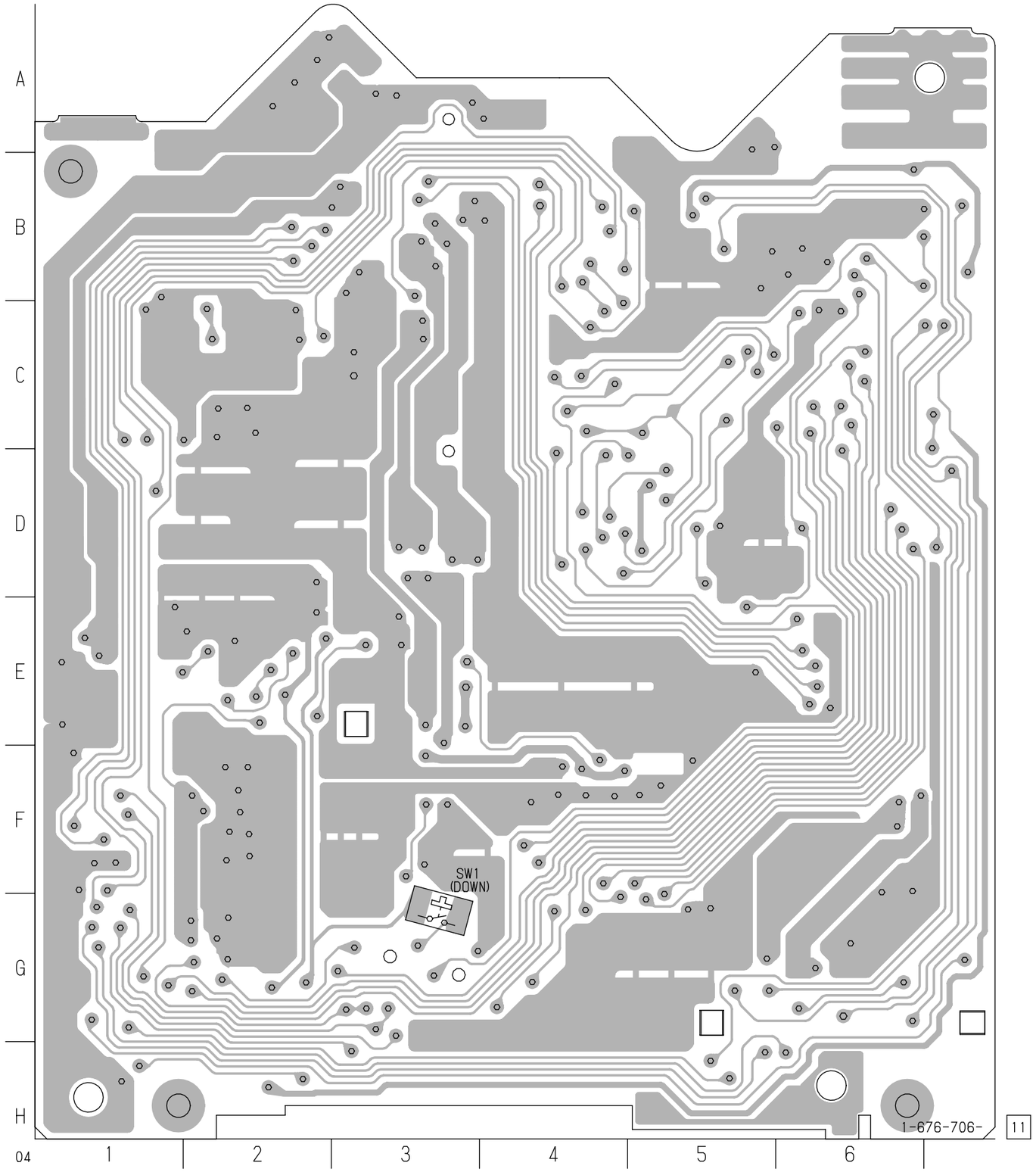
**for printed wiring boards:**

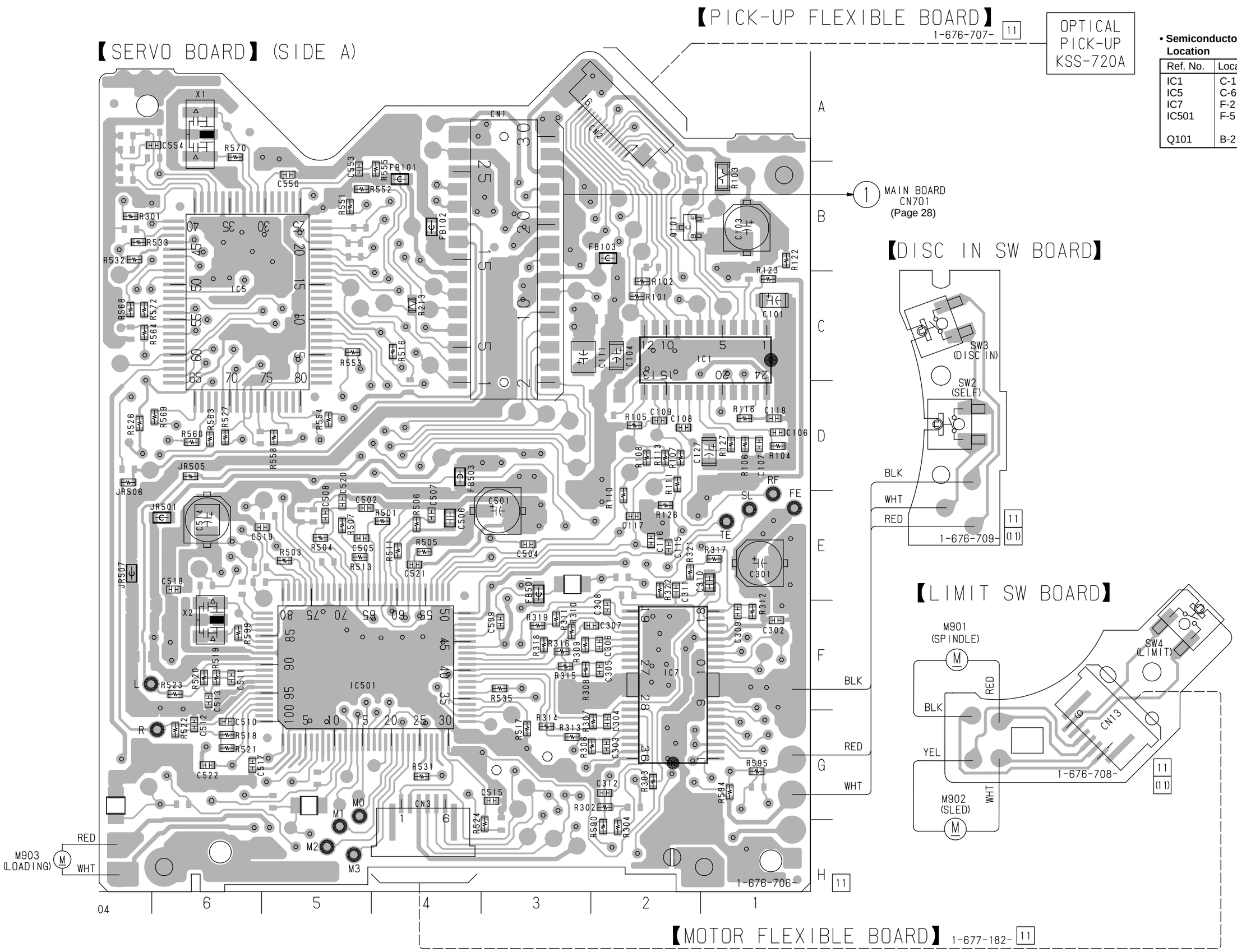
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▒ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

## 3-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION —

【SERVO BOARD】(SIDE B)

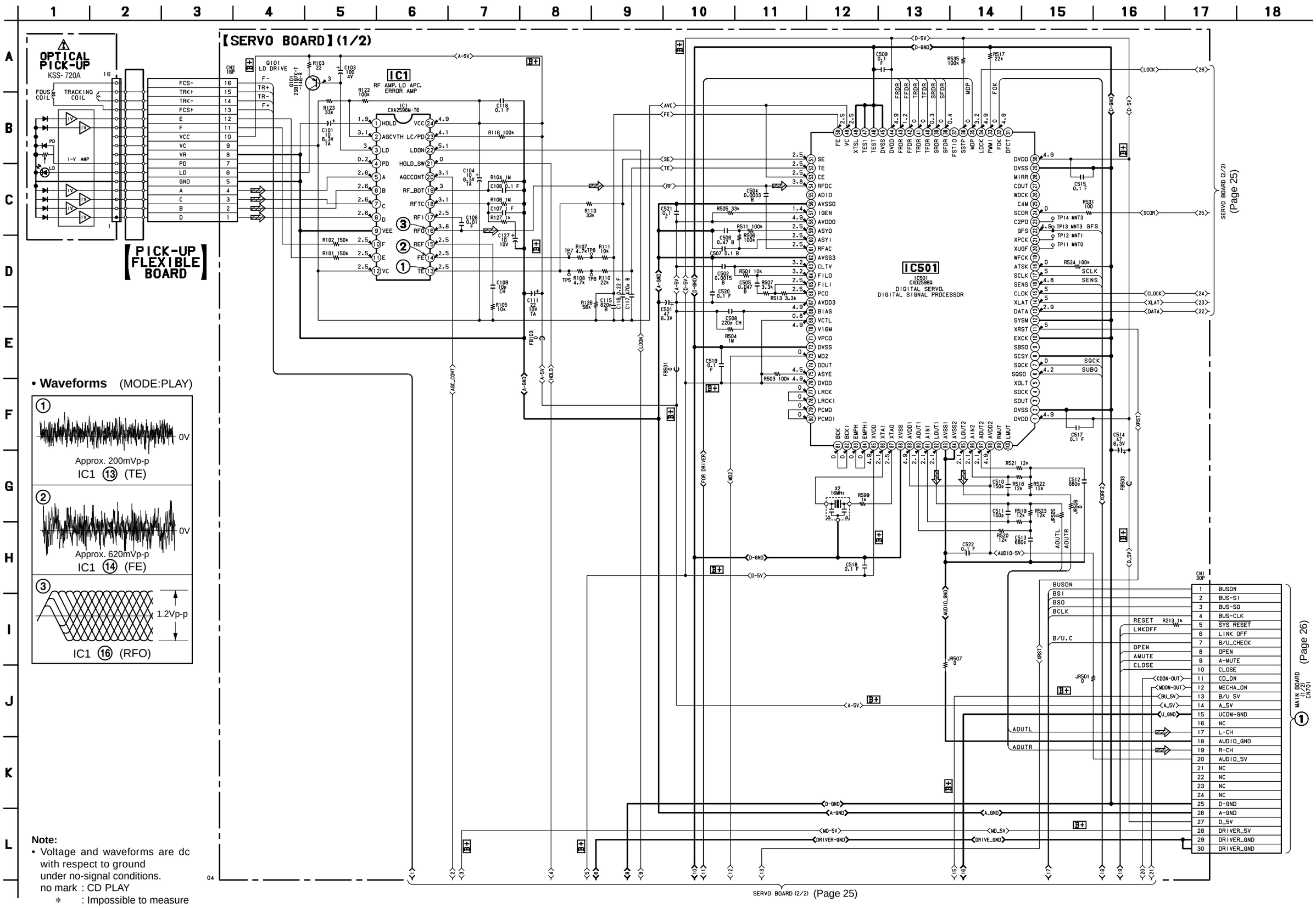





- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| IC1 | C-1 |
| IC5 | C-6 |
| IC7 | F-2 |
| IC501 | F-5 |
| Q101 | B-2 |

### 3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 33 for IC Block Diagrams.




**• Waveforms** (MODE:PLAY)

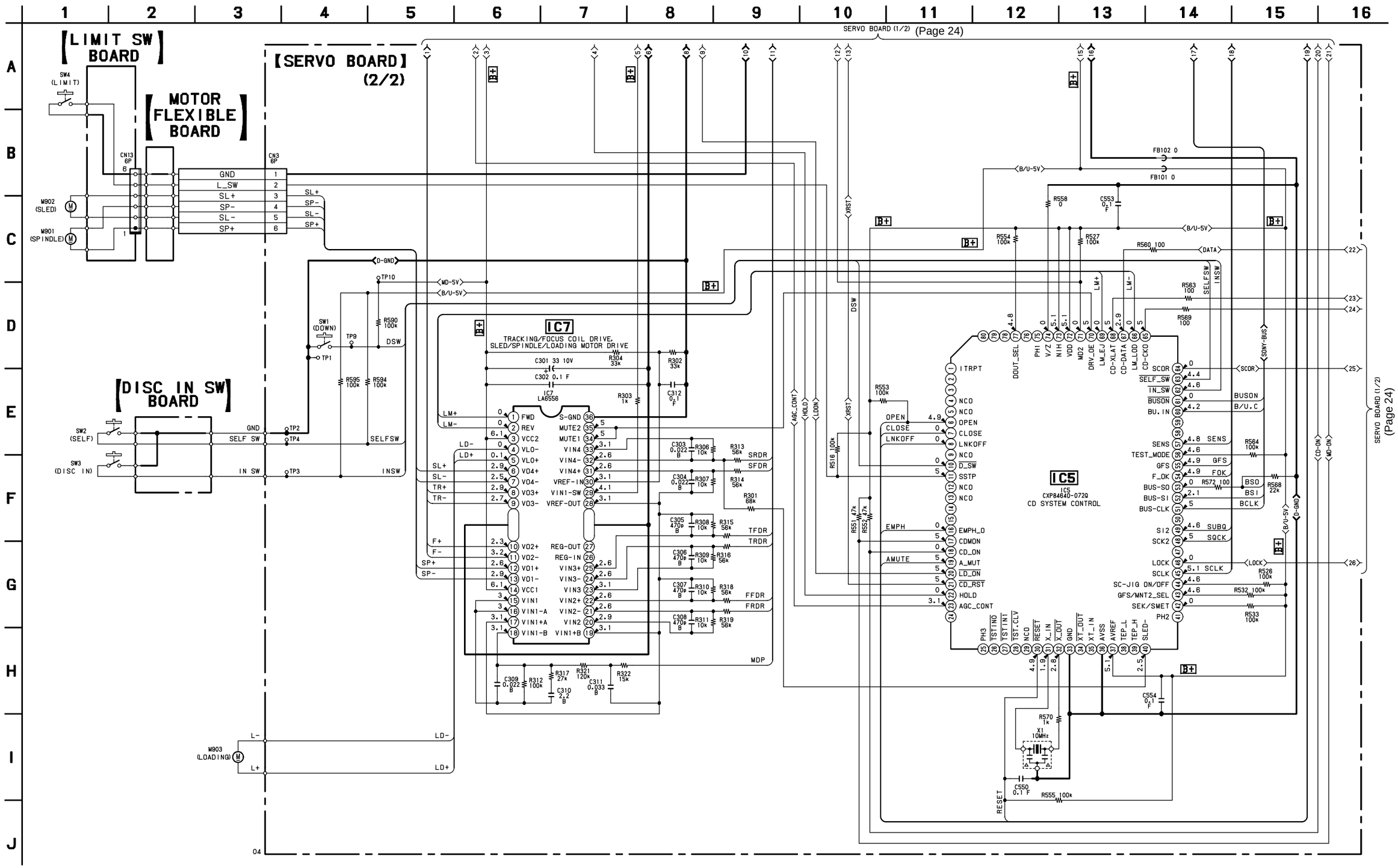
① 0V
Approx. 200mVp-p
IC1 ⑬ (TE)

② 0V
Approx. 620mVp-p
IC1 ⑭ (FE)

③ 1.2Vp-p
IC1 ⑯ (RFO)

**Note:**
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  ∗ : Impossible to measure

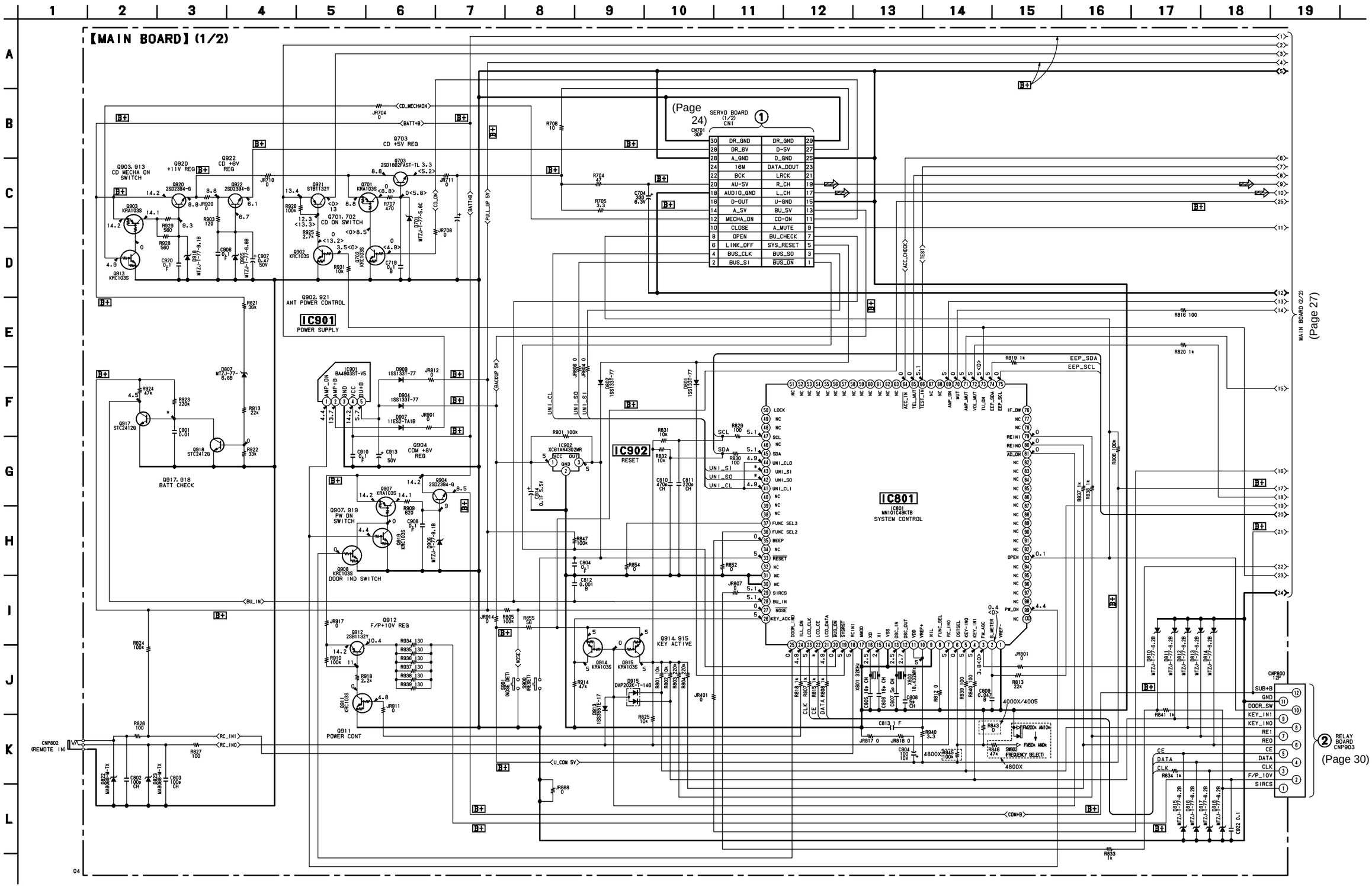
### 3-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 34 for IC Block Diagrams.




**Note:**

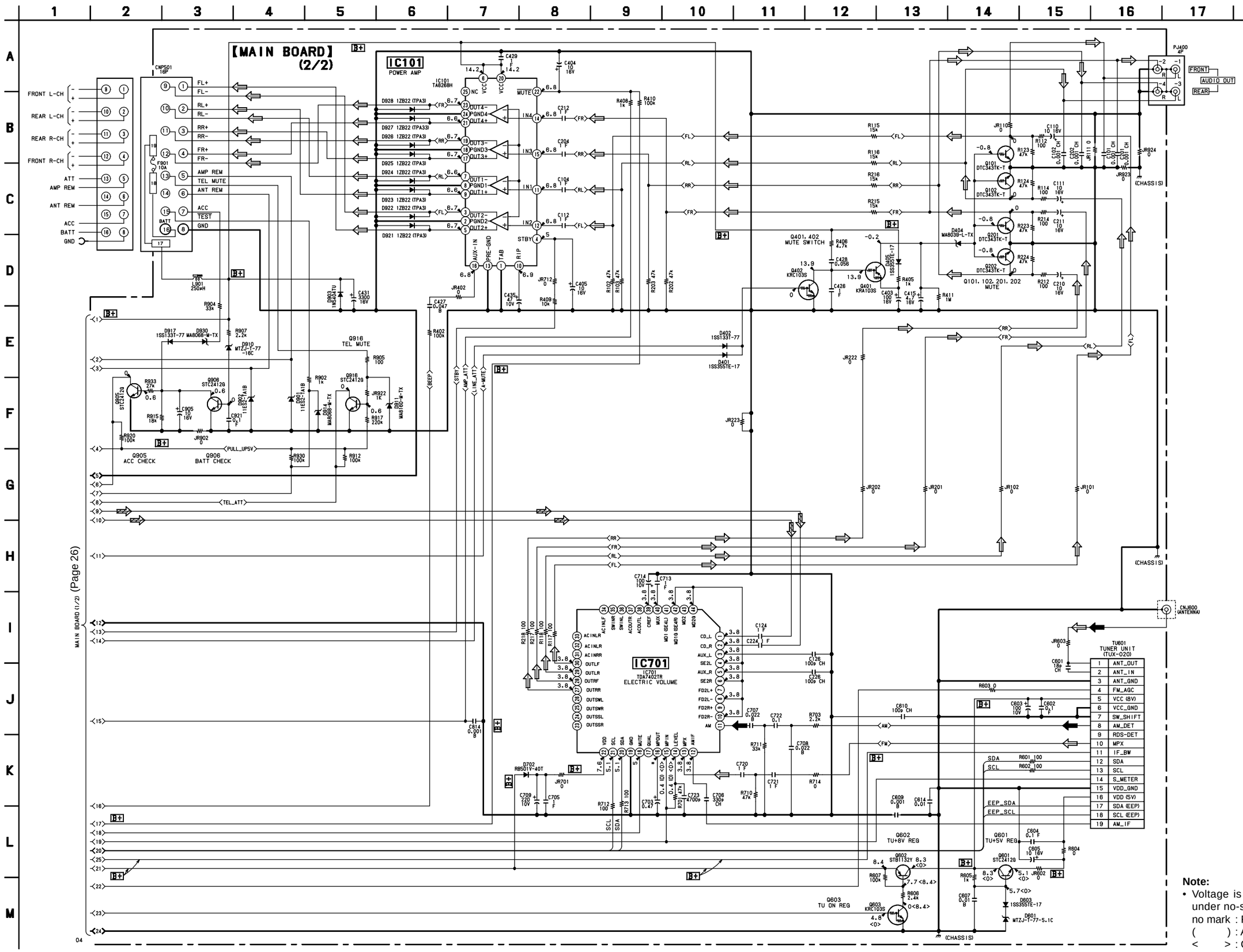
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  ∗ : Impossible to measure

### 3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 33 for IC Block Diagrams.



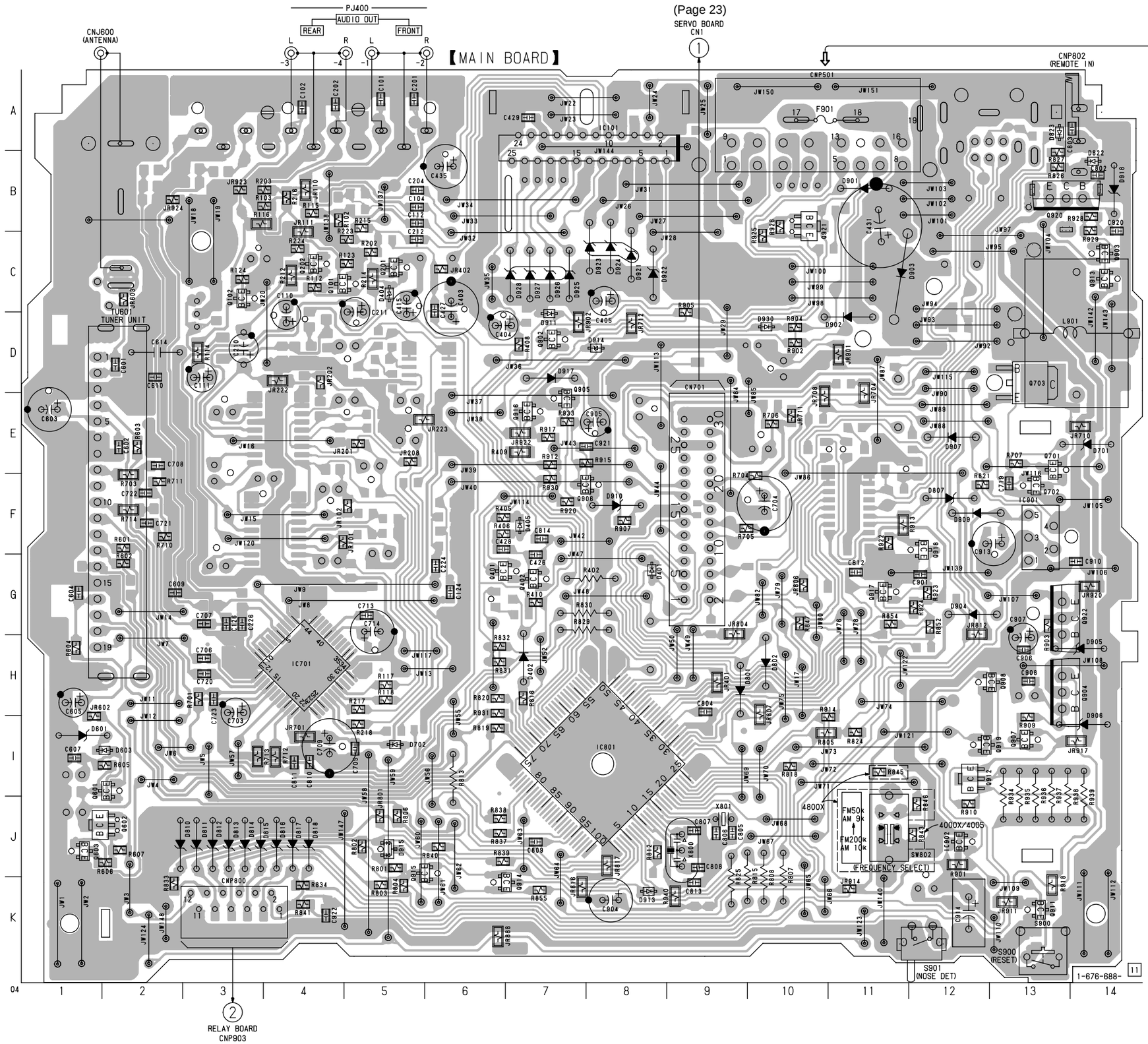

**Note:**
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM
  < > : CD PLAY

### 3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 35 for IC Block Diagrams.




**Note:**
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM
  < > : CD PLAY

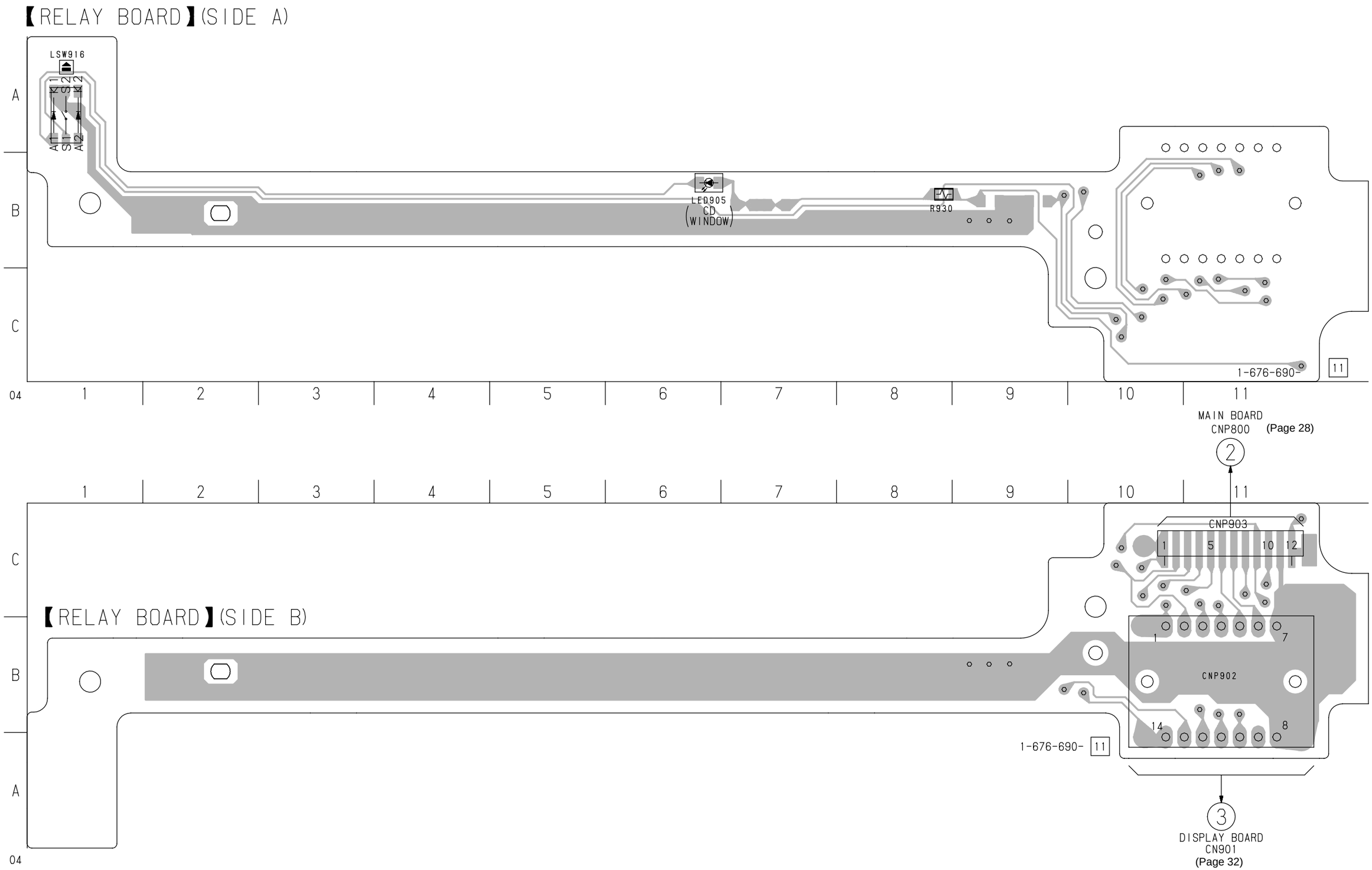
### 3-11. PRINTED WIRING BOARD — MAIN SECTION —



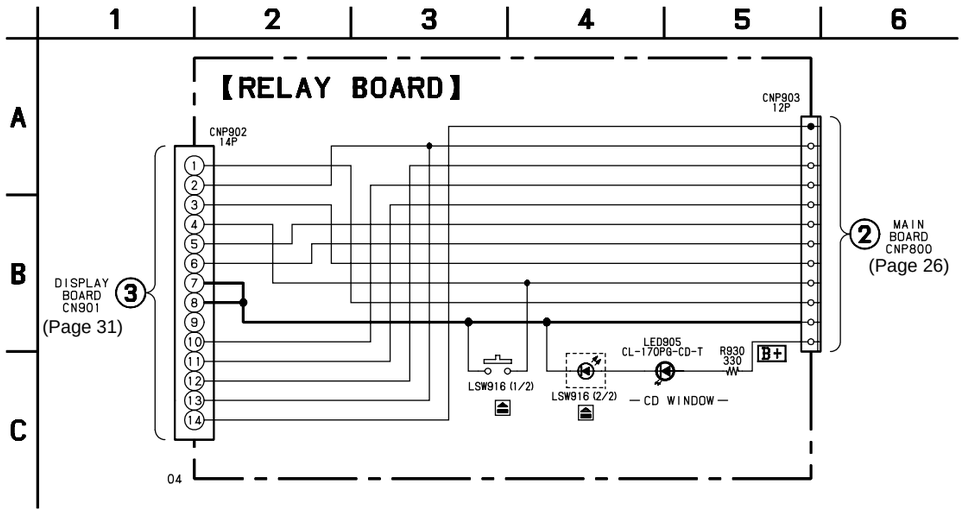

• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D401 | G-8 | D926 | C-7 |
| D402 | H-7 | D927 | C-7 |
| D404 | C-5 | D928 | C-7 |
| D405 | F-7 | D930 | D-10 |
| D601 | I-1 | | |
| D603 | I-2 | IC101 | B-8 |
| D701 | E-14 | IC701 | H-4 |
| D702 | I-5 | IC801 | I-8 |
| D801 | H-9 | IC901 | F-13 |
| D802 | H-10 | IC902 | J-12 |
| D807 | F-12 | | |
| D810 | J-3 | Q101 | C-5 |
| D811 | J-3 | Q102 | C-3 |
| D812 | J-3 | Q201 | C-5 |
| D813 | J-3 | Q202 | C-4 |
| D814 | J-3 | Q401 | G-6 |
| D815 | J-3 | Q402 | G-7 |
| D816 | J-4 | Q601 | I-1 |
| D817 | J-4 | Q602 | J-2 |
| D818 | J-4 | Q603 | J-1 |
| D822 | B-14 | Q701 | E-13 |
| D823 | B-13 | Q702 | F-13 |
| D901 | B-11 | Q703 | D-13 |
| D902 | D-11 | Q902 | D-7 |
| D903 | C-11 | Q903 | C-14 |
| D904 | G-12 | Q904 | H-14 |
| D905 | H-14 | Q905 | E-7 |
| D906 | I-14 | Q906 | F-8 |
| D907 | E-12 | Q907 | I-13 |
| D909 | F-12 | Q908 | H-12 |
| D910 | F-8 | Q911 | K-13 |
| D911 | D-7 | Q912 | I-12 |
| D913 | K-8 | Q913 | C-14 |
| D914 | D-8 | Q914 | K-7 |
| D915 | J-5 | Q915 | J-5 |
| D917 | D-7 | Q916 | E-7 |
| D918 | B-14 | Q917 | G-11 |
| D921 | C-8 | Q918 | G-12 |
| D922 | C-8 | Q919 | I-12 |
| D923 | C-8 | Q920 | B-13 |
| D924 | C-8 | Q921 | C-10 |
| D925 | C-7 | Q922 | G-14 |

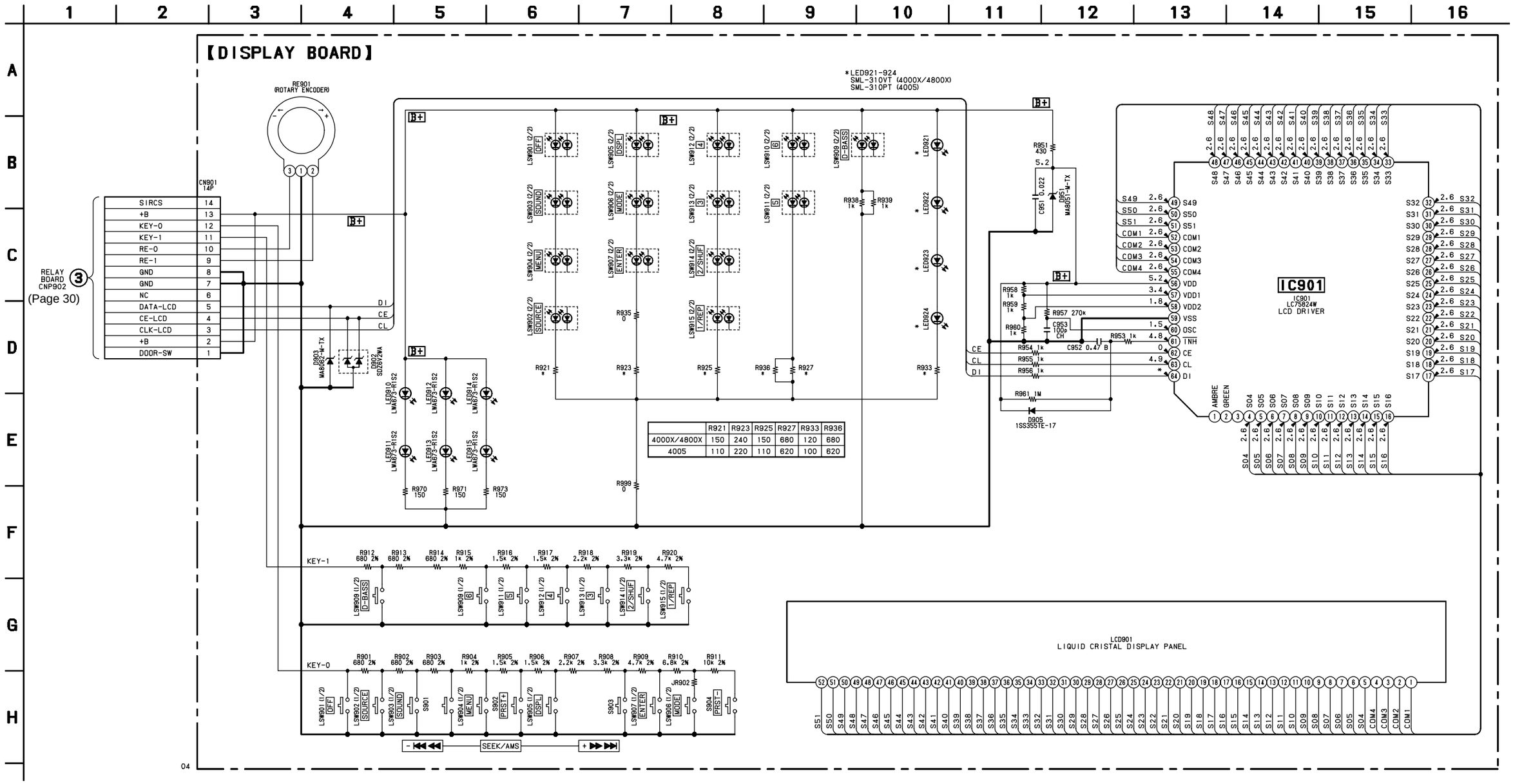
### 3-12. PRINTED WIRING BOARD — RELAY SECTION —



### 3-13. SCHEMATIC DIAGRAM — RELAY SECTION —



### 3-14. SCHEMATIC DIAGRAM — DISPLAY SECTION —

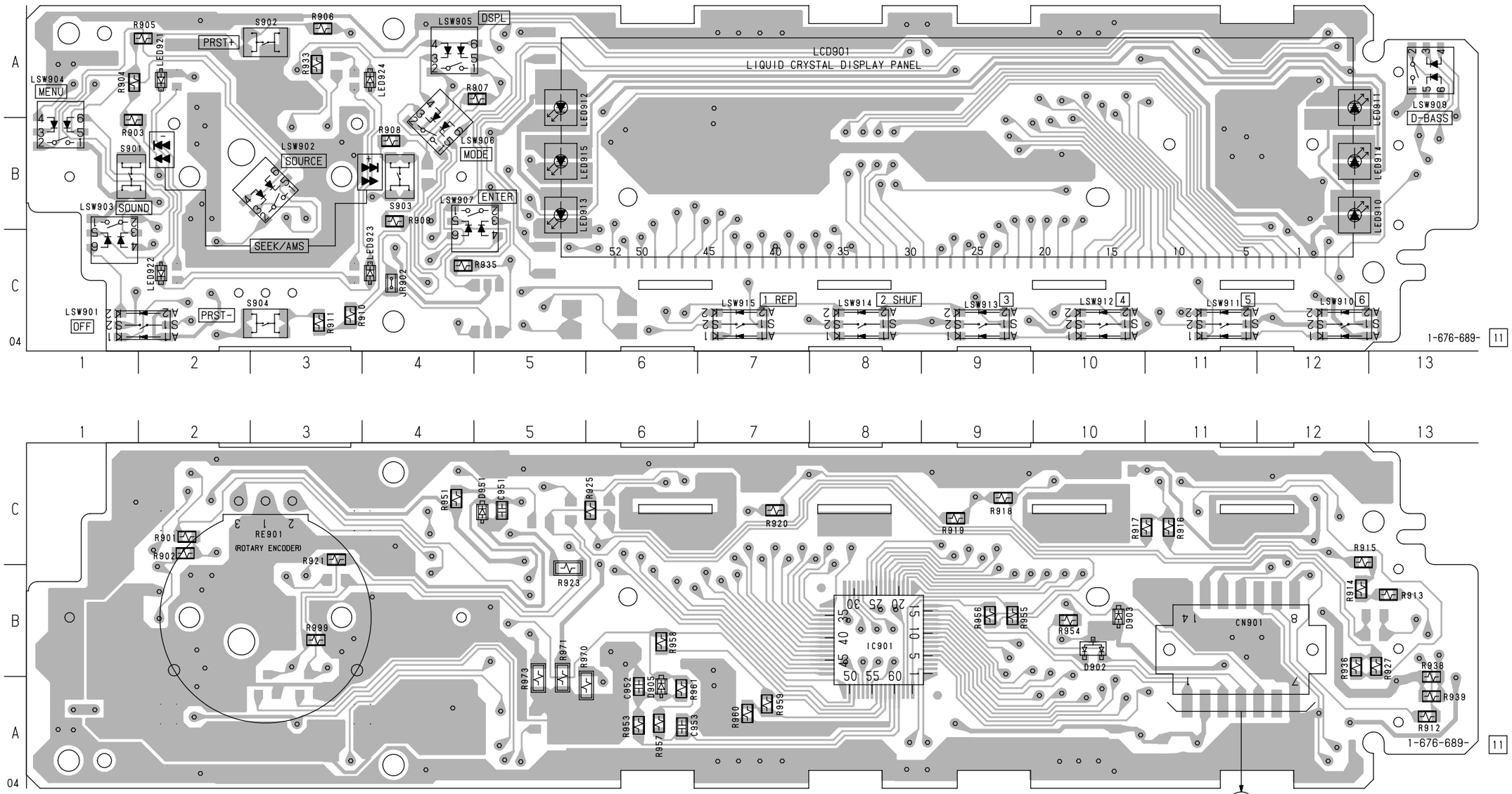



**Note:**

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

### 3-15. PRINTED WIRING BOARD — DISPLAY SECTION —

【DISPLAY BOARD】(SIDE A)




【DISPLAY BOARD】(SIDE B)

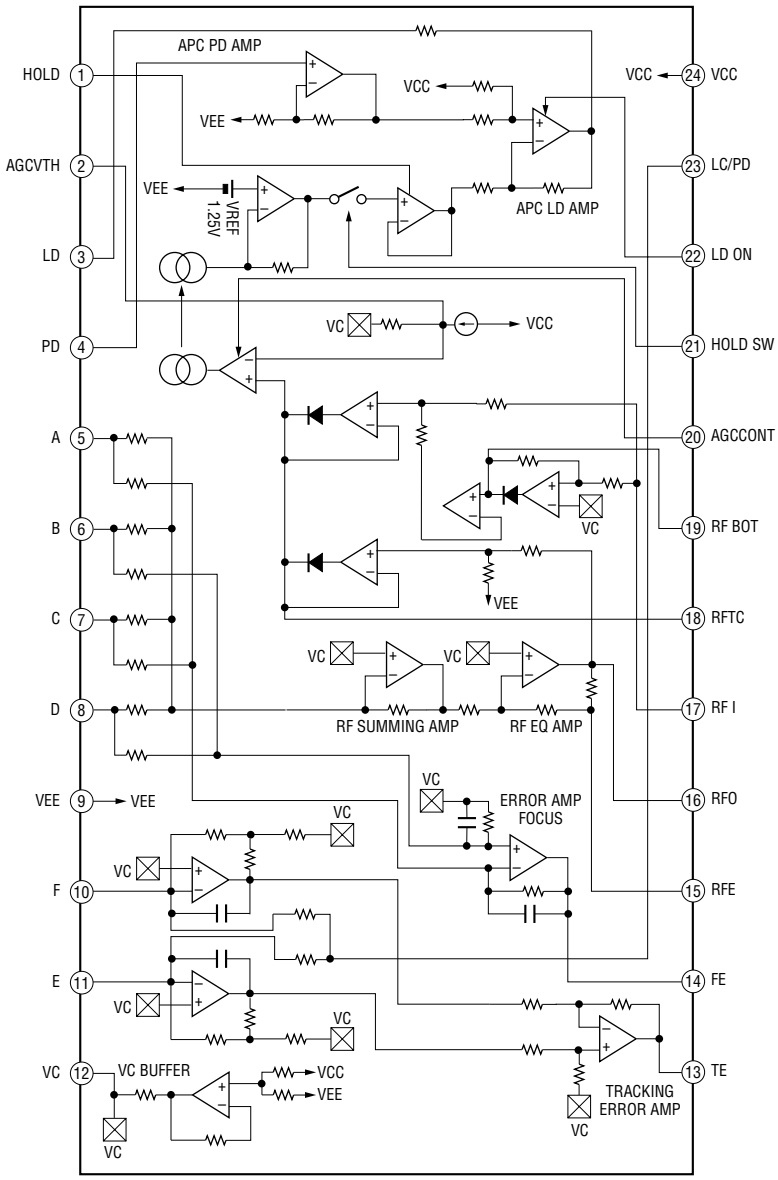
• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| (D902) | B-10 | LED912 | A-5 |
| (D903) | B-10 | LED913 | B-5 |
| (D905) | A-6 | LED914 | B-13 |
| (D951) | C-5 | LED915 | B-5 |
| | | LED921 | A-2 |
| (IC901) | B-8 | LED922 | C-2 |
| | | LED923 | C-4 |
| LED910 | B-13 | LED924 | A-4 |
| LED911 | A-13 | | |

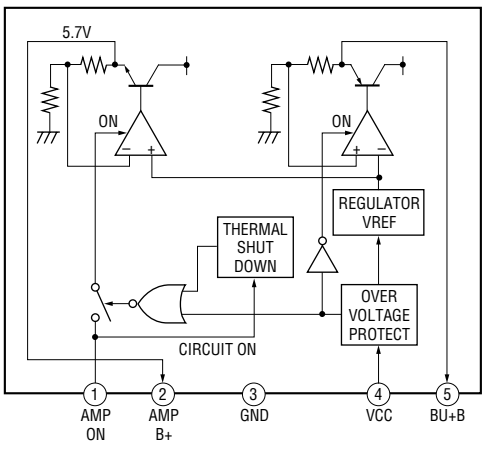
( ) : SIDE B

## 3-16. IC BLOCK DIAGRAMS

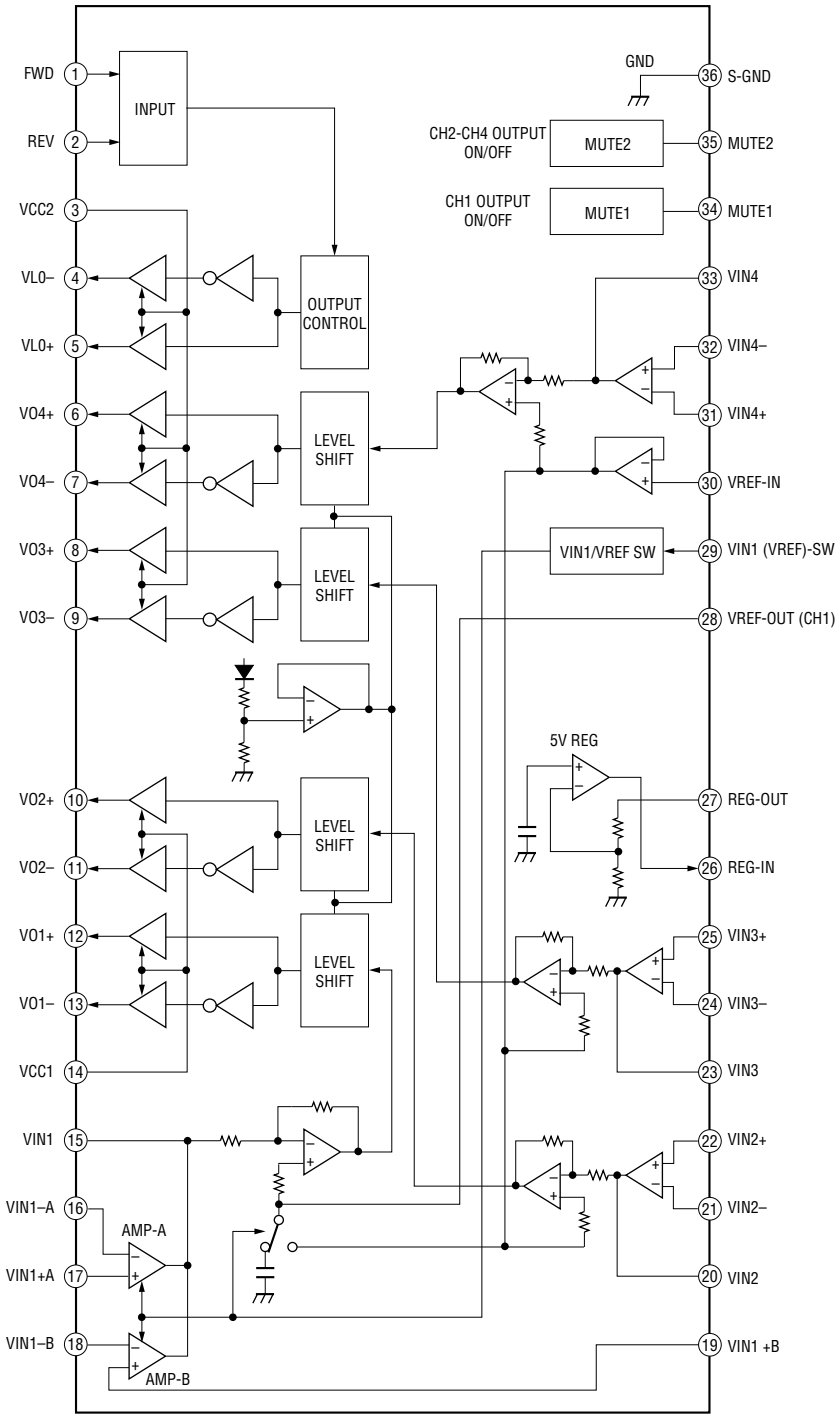
### IC1 CXA2596M-T6



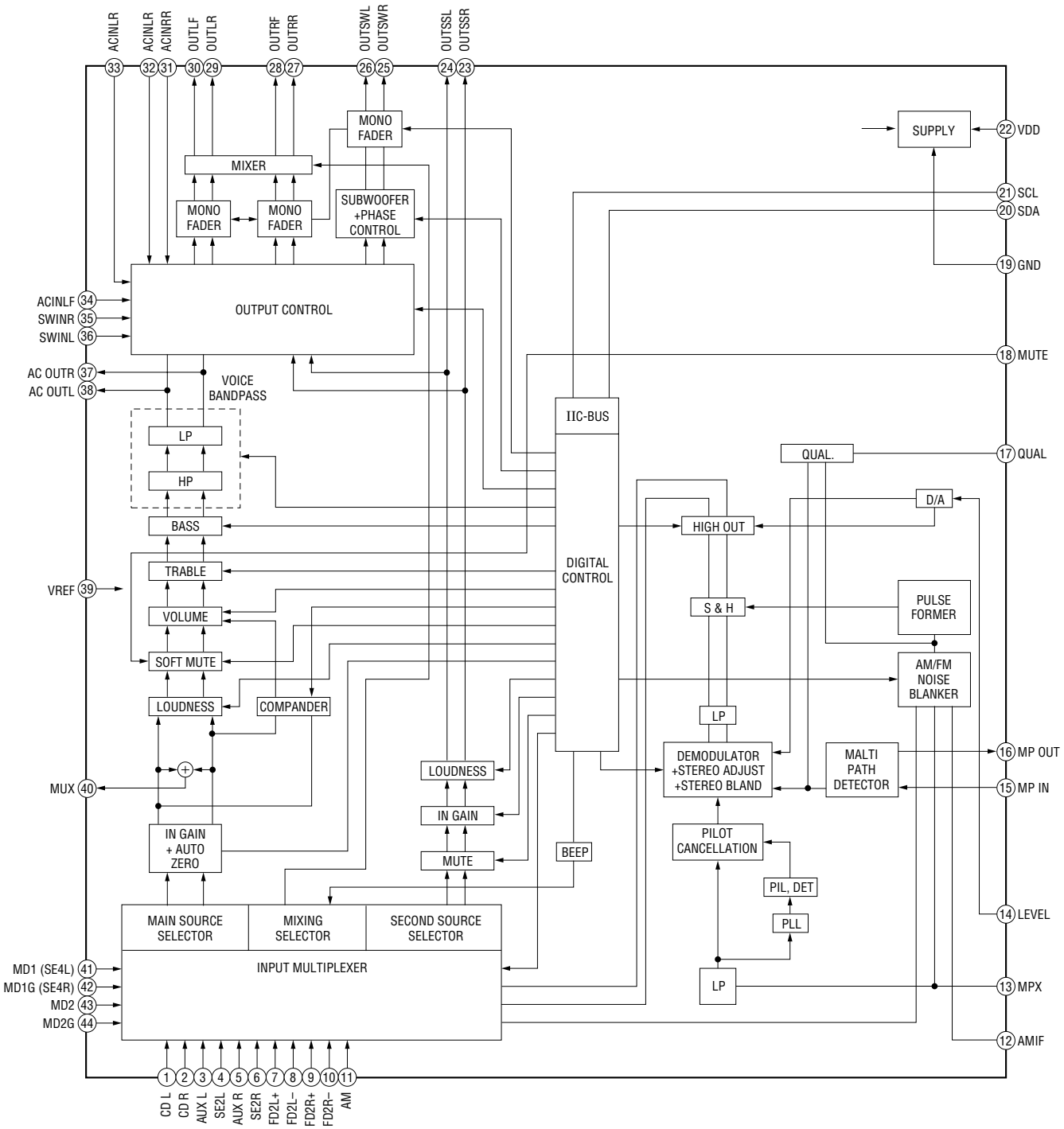

### IC901 BA4903ST-V5



## IC7 LA6556


FWD 1
REV 2
VCC2 3
VL0– 4
VL0+ 5
VO4+ 6
VO4– 7
VO3+ 8
VO3– 9
VO2+ 10
VO2– 11
VO1+ 12
VO1– 13
VCC1 14
VIN1 15
VIN1–A 16
VIN1+A 17
VIN1–B 18
INPUT
OUTPUT CONTROL
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
AMP-A
AMP-B
GND
36 S-GND
CH2-CH4 OUTPUT ON/OFF
MUTE2
35 MUTE2
CH1 OUTPUT ON/OFF
MUTE1
34 MUTE1
33 VIN4
32 VIN4–
31 VIN4+
30 VREF-IN
VIN1/VREF SW
29 VIN1 (VREF)-SW
28 VREF-OUT (CH1)
5V REG
27 REG-OUT
26 REG-IN
25 VIN3+
24 VIN3–
23 VIN3
22 VIN2+
21 VIN2–
20 VIN2
19 VIN1 +B

## IC701 TDA7402TR



# SECTION 4
# EXPLODED VIEWS

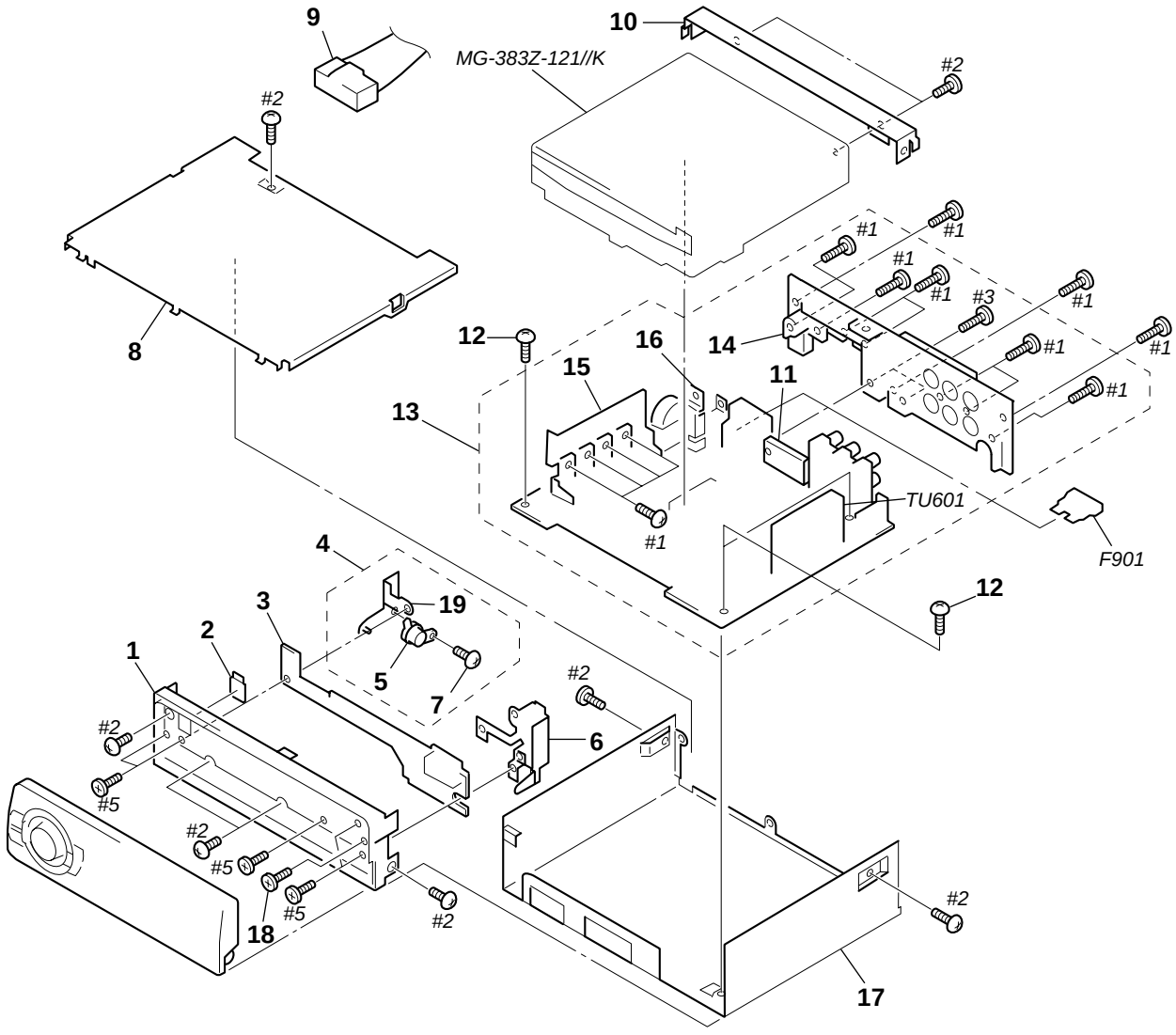
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

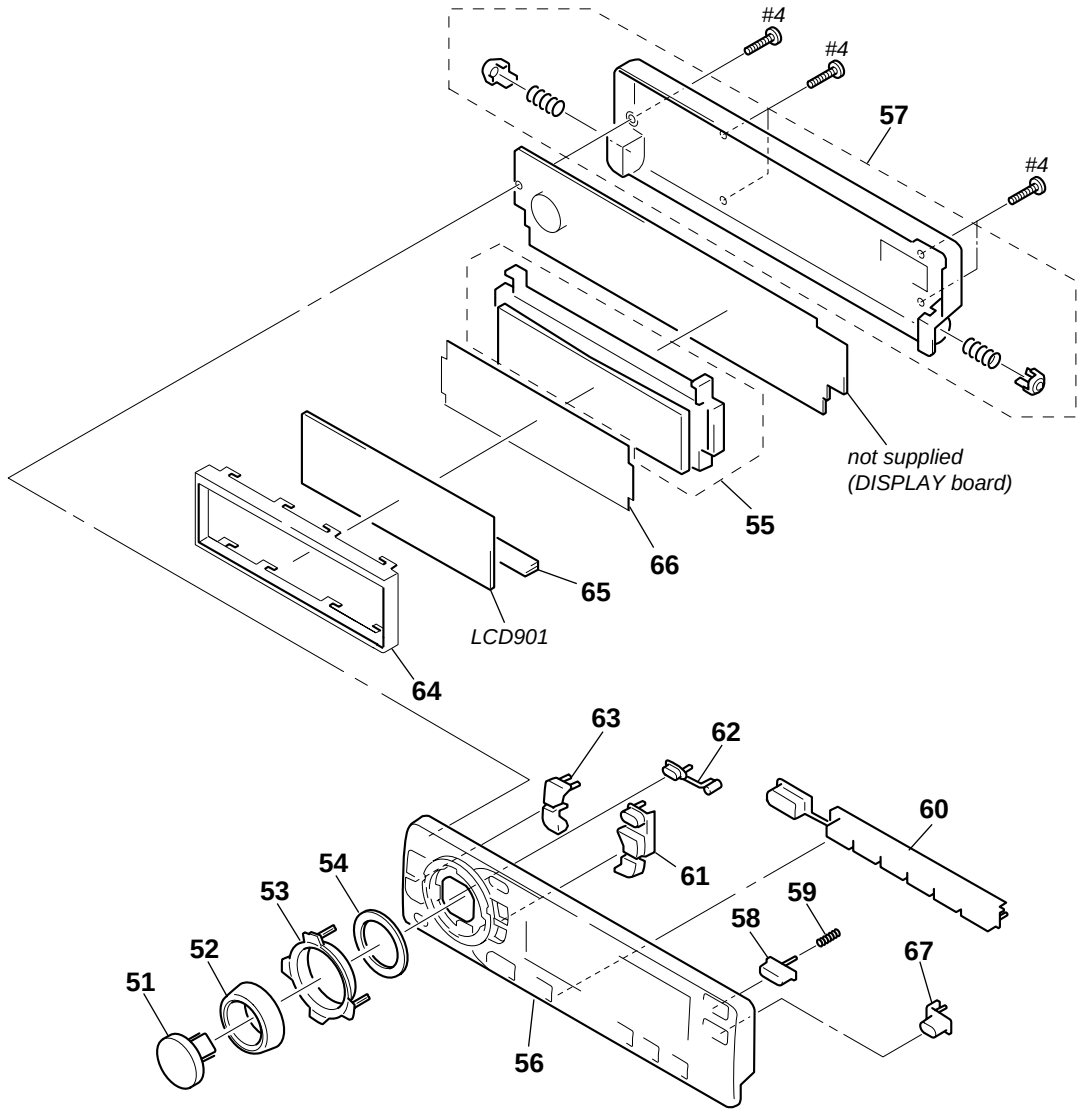
## 4-1. CHASSIS SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-3378-387-1 | PANEL ASSY (CD), SUB | |
| 2 | 3-041-039-01 | BUTTON (EJECT) | |
| * 3 | 1-676-690-11 | RELAY BOARD | |
| 4 | X-3376-686-2 | GEAR ASSY | |
| 5 | 3-030-909-02 | DAMPER, OIL | |
| 6 | X-3376-687-1 | LOCK ASSY | |
| 7 | 3-713-786-51 | SCREW +P 2X3 | |
| * 8 | 3-041-156-01 | COVER | |
| 9 | 1-792-194-21 | CORD (WITH CONNECTOR) (POWER) | |
| * 10 | 3-041-173-01 | BRACKET (CD) | |
| * 11 | 3-019-565-01 | BRACKET (IC) | |
| 12 | 3-376-464-11 | SCREW (+PTT 2.6X6), GROUND POINT | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 13 | A-3294-800-A | MAIN BOARD, COMPLETE (4005) | |
| * 13 | A-3294-871-A | MAIN BOARD, COMPLETE (4800X) | |
| * 13 | A-3294-878-A | MAIN BOARD, COMPLETE (4000X) | |
| * 14 | 3-041-176-01 | HEAT SINK (4P) | |
| * 15 | 3-041-174-01 | HEAT SINK (REG) | |
| * 16 | 3-041-261-01 | BRACKET (TR) | |
| * 17 | 3-041-155-01 | CHASSIS | |
| 18 | 3-035-250-02 | SCREW (LOCK) | |
| * 19 | X-3376-689-1 | BRACKET (GEAR) ASSY | |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) 10A | |
| TU601 | A-3220-738-A | TUNER UNIT (TUX-020) | |

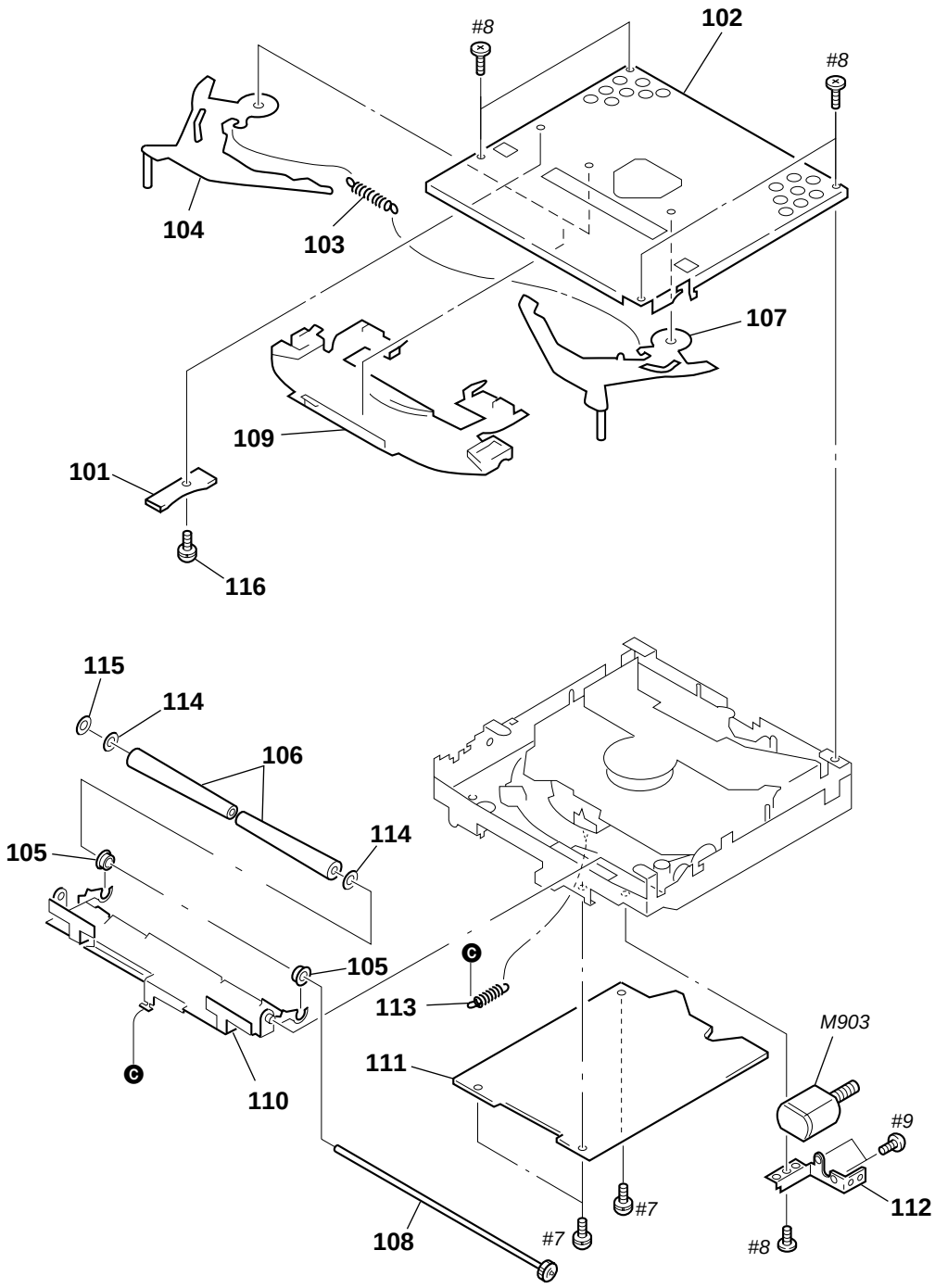
## 4-2. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-041-028-01 | BUTTON (SOURCE) | |
| 52 | 3-041-029-01 | KNOB (VOL) (4000X/4005) | |
| 52 | 3-041-029-11 | KNOB (VOL) (4800X) | |
| 53 | 3-041-030-31 | BUTTON (CROSS) | |
| 54 | 3-042-967-01 | CUSHION (CROSS) | |
| * 55 | X-3378-426-1 | HOLDER (LCD) ASSY | |
| 56 | X-3378-393-1 | PANEL (S) ASSY, FRONT (4005) | |
| 56 | X-3378-603-1 | PANEL (S) ASSY, FRONT (4000X) | |
| 56 | X-3378-604-1 | PANEL (S) ASSY, FRONT (4800X) | |
| 57 | X-3378-391-1 | PANEL ASSY, FRONT BACK | |
| 58 | 3-041-037-01 | BUTTON (OPEN) | |
| 59 | 3-032-321-01 | SPRING (OPEN) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 60 | 3-041-036-11 | BUTTON (1-6/M) | |
| 61 | 3-042-984-01 | BUTTON (MODE/ENTER) | |
| 62 | 3-041-035-01 | BUTTON (OFF) | |
| 63 | 3-041-034-01 | BUTTON (MENU/SOUND) | |
| * 64 | 3-041-175-01 | PLATE (LCD), GROUND | |
| 65 | 1-694-660-11 | CONDUCTIVE BOARD, CONNECTION | |
| * 66 | 3-041-372-01 | SHEET (REFLECTOR) | |
| 67 | 3-041-038-01 | BUTTON (D) | |
| LCD901 | 1-803-907-21 | DISPLAY PANEL, LIQUID CRYSTAL (4005) | |
| LCD901 | 1-803-907-41 | DISPLAY PANEL, LIQUID CRYSTAL (4000X/4800X) | |

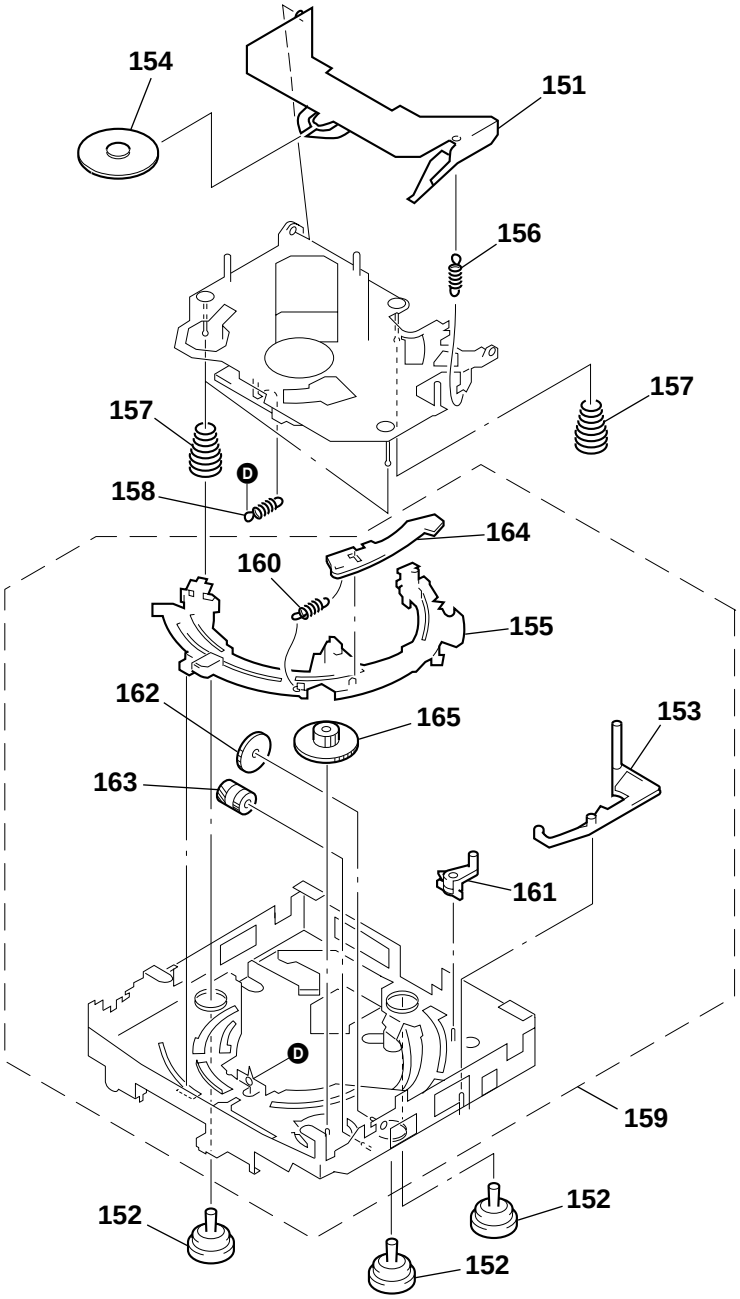
## 4-3. CD MECHANISM SECTION (1)
## (MG-383Z-121//K)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 101 | 1-676-709-11 | DISC IN SW BOARD | |
| 102 | 3-040-039-01 | CHASSIS (T) | |
| 103 | 3-040-038-01 | SPRING (LR), TENSION | |
| 104 | 3-040-050-01 | LEVER (L) | |
| 105 | 3-040-022-01 | RETAINER (RA), SHAFT | |
| 106 | 3-040-044-01 | ROLLER (S) | |
| 107 | 3-040-067-01 | LEVER (R) | |
| 108 | A-3301-980-A | SHAFT ROLLER ASSY | |
| 109 | 3-040-037-01 | GUIDE (DISC) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 110 | 3-040-040-01 | ARM (ROLLER) | |
| * 111 | A-3294-809-A | SERVO BOARD, COMPLETE | |
| * 112 | 3-040-048-01 | BRACKET (MOTOR) | |
| 113 | 3-040-034-01 | SPRING (RA), TENSION | |
| 114 | 3-040-042-01 | WASHER | |
| 115 | 3-043-880-01 | RING (RA), RETAING | |
| 116 | 3-338-737-01 | SCREW (2X3), PS | |
| M903 | A-3301-978-A | MOTOR SUB ASSY, LO (LOADING) | |

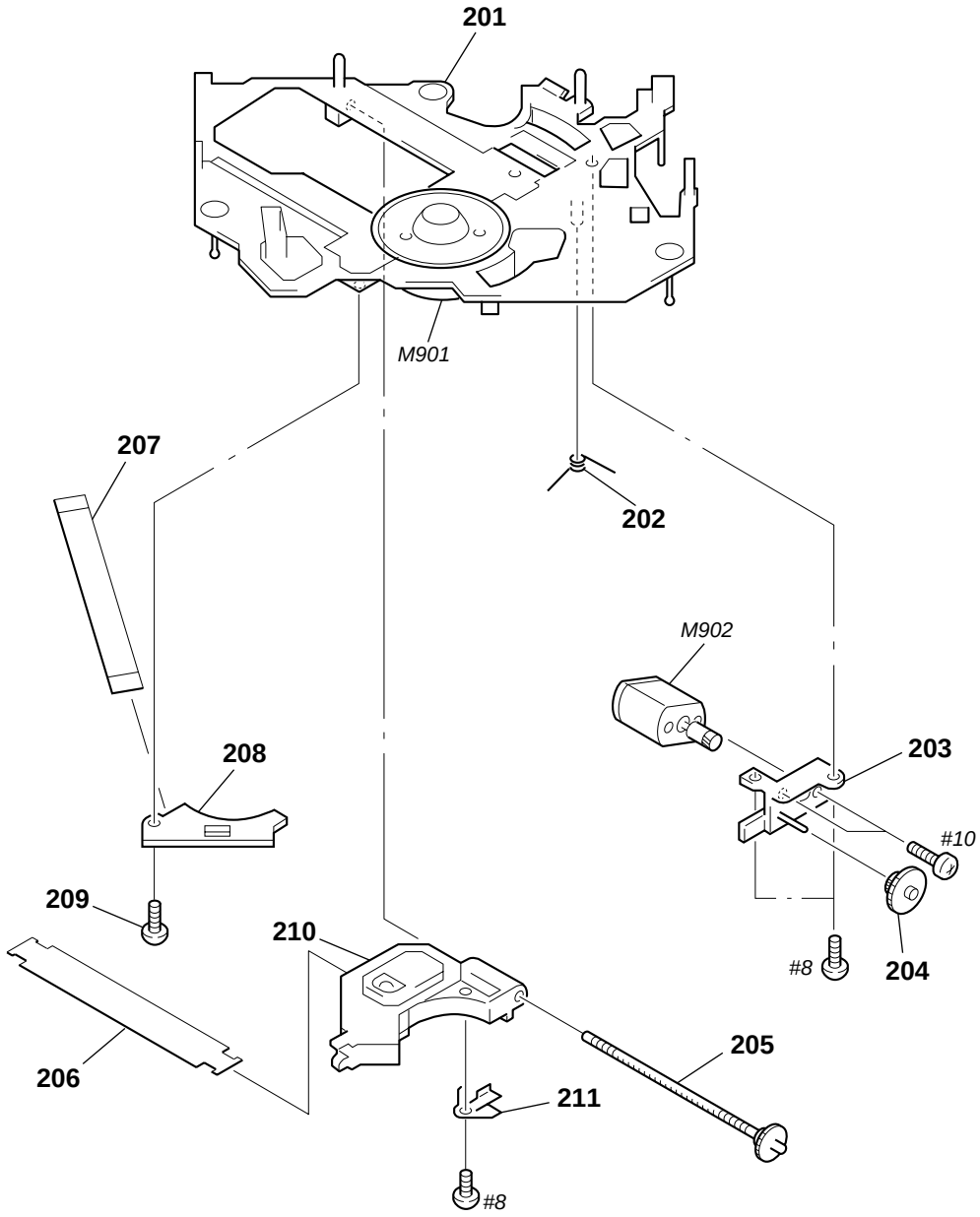
## 4-4. CD MECHANISM SECTION (2)
## (MG-383Z-121//K)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-040-025-01 | ARM, CHUCKING | |
| 152 | 3-040-031-01 | DAMPER (T) | |
| 153 | 3-040-056-01 | LEVER (D) | |
| 154 | 3-040-024-01 | RETAINER (DISC) | |
| 155 | 3-040-053-01 | RING, LOADING | |
| 156 | 3-040-026-01 | SPRING (CH), TENSION | |
| 157 | 3-040-032-01 | SPRING (FL), COMPRESSION | |
| 158 | 3-040-033-01 | SPRING (KF1), TENSION | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 159 | A-3307-422-A | CHASSIS (M) COMPLETE ASSY | |
| 160 | 3-040-059-01 | SPRING (TR), TENSION | |
| 161 | 3-040-057-01 | LEVER (LOCK) | |
| 162 | 3-040-058-01 | GEAR (MDL) | |
| 163 | 3-040-052-01 | WHEEL (U), WORM | |
| 164 | 3-040-051-01 | LEVER (TR) | |
| 165 | 3-040-054-01 | WHEEL (LW), WORM | |

## 4-5. CD MECHANISM SECTION (3)
## (MG-383Z-121//K)




| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une piéce portant le numéro spécifié. |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 201 | X-3378-480-1 | CHASSIS (OP) ASSY (INCLUDING M901) | |
| 202 | 3-040-029-01 | SPRING (SL), TORSION | |
| 203 | 3-040-045-01 | BASE (DRIVING) | |
| 204 | 3-040-194-01 | GEAR (SL MIDWAY) | |
| 205 | A-3301-983-A | SHAFT (FEED) ASSY | |
| 206 | 1-676-707-11 | PICK-UP FLEXIBLE BOARD | |
| 207 | 1-677-182-11 | MOTOR FLEXIBLE BOARD | |
| * 208 | 1-676-708-11 | LIMIT SW BOARD | |
| 209 | 3-909-607-01 | SCREW | |
| ⚠210 | 8-820-103-03 | PICK-UP, OPTICAL KSS-720A/K1RP | |
| 211 | 3-040-030-01 | SPRING (FEED), PLATE | |
| M902 | A-3301-985-A | MOTOR ASSY, SLED (SLED) | |

# SECTION 5
# ELECTRICAL PARTS LIST

**DISC IN SW** **DISPLAY**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | 1-676-709-11 | DISC IN SW BOARD | | | |
| | | ********** | | | |
| | | < SWITCH > | | | |
| SW2 | 1-529-566-21 | SWITCH, PUSH (1 KEY) (SELF) | | | |
| SW3 | 1-529-566-21 | SWITCH, PUSH (1 KEY) (DISC IN) | | | |
| ********** | | | | | |
| | | DISPLAY BOARD | | | |
| | | ********** | | | |
| | 1-694-660-11 | CONDUCTIVE BOARD, CONNECTION | | | |
| * | 3-041-175-01 | PLATE (LCD), GROUND | | | |
| * | 3-041-372-01 | SHEET (REFLECTOR) | | | |
| | | < CAPACITOR > | | | |
| C951 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C952 | 1-107-823-11 | CERAMIC CHIP | 0.47uF | 10% | 16V |
| C953 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| | | < CONNECTOR > | | | |
| CN901 | 1-794-065-11 | PLUG, CONNECTOR 14P | | | |
| | | < DIODE > | | | |
| D902 | 8-719-068-68 | DIODE SDZ6V2WA | | | |
| D903 | 8-719-422-64 | DIODE MA8062-M-TX | | | |
| D905 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D951 | 8-719-420-90 | DIODE MA8051-M-TX | | | |
| | | < IC > | | | |
| IC901 | 8-759-365-90 | IC LC75824W | | | |
| | | < JUMPER RESISTOR > | | | |
| JR902 | 1-216-295-00 | SHORT | 0 | | |
| | | < LIQUID CRYSTAL DISPLAY > | | | |
| LCD901 | 1-803-907-21 | DISPLAY PANEL, LIQUID CRYSTAL (4005) | | | |
| LCD901 | 1-803-907-41 | DISPLAY PANEL, LIQUID CRYSTAL | | | (4000X/4800X) |
| | | < DIODE > | | | |
| LED910 | 8-719-078-19 | LED LWA673-R1S2 | | | |
| LED911 | 8-719-078-19 | LED LWA673-R1S2 | | | |
| LED912 | 8-719-078-19 | LED LWA673-R1S2 | | | |
| LED913 | 8-719-078-19 | LED LWA673-R1S2 | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| LED914 | 8-719-078-19 | LED LWA673-R1S2 | |
| LED915 | 8-719-078-19 | LED LWA673-R1S2 | |
| LED921 | 8-719-078-21 | LED SML-310PT (4005) | |
| LED921 | 8-719-078-83 | LED SML-310VT (4000X/4800X) | |
| LED922 | 8-719-078-21 | LED SML-310PT (4005) | |
| LED922 | 8-719-078-83 | LED SML-310VT (4000X/4800X) | |
| LED923 | 8-719-078-21 | LED SML-310PT (4005) | |
| LED923 | 8-719-078-83 | LED SML-310VT (4000X/4800X) | |
| LED924 | 8-719-078-21 | LED SML-310PT (4005) | |
| LED924 | 8-719-078-83 | LED SML-310VT (4000X/4800X) | |
| | | < SWITCH > | |
| LSW901 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (OFF) (4005) | |
| LSW901 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (OFF) | (4000X/4800X) |
| LSW902 | 1-762-619-21 | SWITCH, KEY BOARD (WITH LED) (SOURCE) | (4005) |
| LSW902 | 1-771-476-11 | SWITCH, KEY BOARD (WITH LED) (SOURCE) | (4000X/4800X) |
| LSW903 | 1-762-619-21 | SWITCH, KEY BOARD (WITH LED) (SOUND) | (4005) |
| LSW903 | 1-771-476-11 | SWITCH, KEY BOARD (WITH LED) (SOUND) | (4000X/4800X) |
| LSW904 | 1-762-619-21 | SWITCH, KEY BOARD (WITH LED) (MENU) | (4005) |
| LSW904 | 1-771-476-11 | SWITCH, KEY BOARD (WITH LED) (MENU) | (4000X/4800X) |
| LSW905 | 1-762-619-21 | SWITCH, KEY BOARD (WITH LED) (DSPL) | (4005) |
| LSW905 | 1-771-476-11 | SWITCH, KEY BOARD (WITH LED) (DSPL) | (4000X/4800X) |
| LSW906 | 1-762-619-21 | SWITCH, KEY BOARD (WITH LED) (LIST) | (4005) |
| LSW906 | 1-771-476-11 | SWITCH, KEY BOARD (WITH LED) (LIST) | (4000X/4800X) |
| LSW907 | 1-762-619-21 | SWITCH, KEY BOARD (WITH LED) (ENTER) | (4005) |
| LSW907 | 1-771-476-11 | SWITCH, KEY BOARD (WITH LED) (ENTER) | (4000X/4800X) |
| LSW909 | 1-762-737-11 | SWITCH, KEY BOARD (WITH LED) (D-BASS) | |
| LSW910 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (6) (4005) | |
| LSW910 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (6) | (4000X/4800X) |
| LSW911 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (5) (4005) | |
| LSW911 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (5) | (4000X/4800X) |
| LSW912 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (4) (4005) | |

## DISPLAY　LIMIT SW

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| LSW912 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (4) | | | (4000X/4800X) |
| LSW913 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (3) (4005) | | | |
| LSW913 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (3) | | | (4000X/4800X) |
| LSW914 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (2 SHUF) | | | (4005) |
| LSW914 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (2 SHUF) | | | (4000X/4800X) |
| LSW915 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (1 REP) | | | (4005) |
| LSW915 | 1-771-883-21 | SWITCH, TACTILE (WITH LED) (1 REP) | | | (4000X/4800X) |
| | | < RESISTOR > | | | |
| R901 | 1-216-647-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R902 | 1-216-647-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R903 | 1-216-647-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R904 | 1-216-651-11 | METAL CHIP | 1K | 0.5% | 1/10W |
| R905 | 1-216-655-11 | METAL CHIP | 1.5K | 0.5% | 1/10W |
| R906 | 1-216-655-11 | METAL CHIP | 1.5K | 0.5% | 1/10W |
| R907 | 1-216-659-11 | METAL CHIP | 2.2K | 0.5% | 1/10W |
| R908 | 1-216-663-11 | METAL CHIP | 3.3K | 0.5% | 1/10W |
| R909 | 1-216-667-11 | METAL CHIP | 4.7K | 0.5% | 1/10W |
| R910 | 1-216-671-11 | METAL CHIP | 6.8K | 0.5% | 1/10W |
| R911 | 1-208-806-11 | RES-CHIP | 10K | 2% | 1/10W |
| R912 | 1-216-647-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R913 | 1-216-647-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R914 | 1-216-647-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R915 | 1-216-651-11 | METAL CHIP | 1K | 0.5% | 1/10W |
| R916 | 1-216-655-11 | METAL CHIP | 1.5K | 0.5% | 1/10W |
| R917 | 1-216-655-11 | METAL CHIP | 1.5K | 0.5% | 1/10W |
| R918 | 1-216-659-11 | METAL CHIP | 2.2K | 0.5% | 1/10W |
| R919 | 1-216-663-11 | METAL CHIP | 3.3K | 0.5% | 1/10W |
| R920 | 1-216-667-11 | METAL CHIP | 4.7K | 0.5% | 1/10W |
| R921 | 1-216-026-11 | RES-CHIP | 110 | 5% | 1/10W (4005) |
| R921 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W (4000X/4800X) |
| R923 | 1-216-182-00 | RES-CHIP | 220 | 5% | 1/8W (4005) |
| R923 | 1-216-183-00 | RES-CHIP | 240 | 5% | 1/8W (4000X/4800X) |
| R925 | 1-216-026-11 | RES-CHIP | 110 | 5% | 1/10W (4005) |
| R925 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W (4000X/4800X) |
| R927 | 1-216-044-00 | METAL CHIP | 620 | 5% | 1/10W (4005) |
| R927 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W (4000X/4800X) |
| R933 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W (4005) |
| R933 | 1-216-027-11 | RES-CHIP | 120 | 5% | 1/10W (4000X/4800X) |
| R935 | 1-216-295-00 | SHORT | 0 | | |
| R936 | 1-216-044-00 | METAL CHIP | 620 | 5% | 1/10W (4005) |
| R936 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W (4000X/4800X) |
| R938 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R939 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R951 | 1-216-040-00 | RES-CHIP | 430 | 5% | 1/10W |
| R953 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R954 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R955 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R956 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R957 | 1-216-107-00 | METAL CHIP | 270K | 5% | 1/10W |
| R958 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R959 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R960 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R961 | 1-216-121-11 | RES-CHIP | 1M | 5% | 1/10W |
| R970 | 1-216-178-00 | RES-CHIP | 150 | 5% | 1/8W |
| R971 | 1-216-178-00 | RES-CHIP | 150 | 5% | 1/8W |
| R973 | 1-216-178-00 | RES-CHIP | 150 | 5% | 1/8W |
| R999 | 1-216-295-00 | SHORT | 0 | | |
| | | < ROTARY ENCODER > | | | |
| RE901 | 1-475-014-11 | ENCODER, ROTARY | | | |
| | | < SWITCH > | | | |
| S901 | 1-771-884-21 | SWITCH, TACTILE (WITH LED) (SEEK/AMS – ⏮ ◀◀) | | | |
| S902 | 1-771-884-21 | SWITCH, TACTILE (WITH LED) (PRST +) | | | |
| S903 | 1-771-884-21 | SWITCH, TACTILE (WITH LED) (SEEK/AMS + ▶▶ ⏭) | | | |
| S904 | 1-771-884-21 | SWITCH, TACTILE (WITH LED) (PRST –) | | | |
| ********** | | | | | |
| * | 1-676-708-11 | LIMIT SW BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| CN13 | 1-770-347-21 | CONNECTOR, FPC 6P | | | |
| | | < SWITCH > | | | |
| SW4 | 1-529-565-11 | SWITCH, PUSH (1 KEY) (LIMIT) | | | |
| ********** | | | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-3294-800-A | MAIN BOARD, COMPLETE (4005) | | | |
| * | A-3294-871-A | MAIN BOARD, COMPLETE (4800X) | | | |
| * | A-3294-878-A | MAIN BOARD, COMPLETE (4000X) | | | |
| | | ********** | | | |
| * | 3-019-565-01 | BRACKET (IC) | | | |
| * | 3-041-174-01 | HEAT SINK (REG) | | | |
| * | 3-041-176-01 | HEAT SINK (4P) | | | |
| * | 3-041-261-01 | BRACKET (TR) | | | |
| | 7-685-793-09 | SCREW +PTT 2.6X8 (S) | | | |
| | 7-685-795-09 | SCREW +PTT 2.6X12 (S) | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C102 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C104 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C110 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C111 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C112 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C124 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C126 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C201 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C202 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C204 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C210 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C211 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C212 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C224 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C226 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C403 | 1-119-774-11 | ELECT | 100uF | 20% | 16V |
| C404 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C405 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C415 | 1-124-259-11 | ELECT | 4.7uF | 20% | 16V |
| C426 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C427 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C428 | 1-164-343-11 | CERAMIC CHIP | 0.056uF | 10% | 25V |
| C429 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C431 | 1-135-473-11 | ELECT | 3300uF | 20% | 16V |
| C435 | 1-126-786-11 | ELECT | 47uF | 20% | 16V |
| C601 | 1-163-233-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C602 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C603 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C604 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C605 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C607 | 1-163-021-11 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| C609 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C610 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C614 | 1-162-306-11 | CERAMIC CHIP | 0.01uF | 30% | 16V |
| C703 | 1-124-253-11 | ELECT | 0.47uF | 20% | 50V |
| C704 | 1-128-057-11 | ELECT | 330uF | 20% | 6.3V |
| C705 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C706 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C707 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C708 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C709 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C713 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C714 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C719 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C720 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C721 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C722 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C723 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C802 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C803 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C804 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C805 | 1-163-233-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C806 | 1-163-233-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C807 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C808 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C809 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C810 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C811 | 1-163-259-11 | CERAMIC CHIP | 220PF | 5% | 50V |
| C812 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C813 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C814 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C901 | 1-163-031-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C904 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C905 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C906 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C907 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C908 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C910 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C913 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C914 | 1-128-647-11 | DOUBLE LAYERS | 0.1F | | 5.5V |
| C920 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C921 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C922 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| | | < CONNECTOR > | | | |
| CN701 | 1-764-617-12 | PIN, CONNECTOR (PC BOARD) 30P | | | |
| CNP501 | 1-774-701-11 | PIN, CONNECTOR 16P | | | |
| CNP800 | 1-770-520-31 | CONNECTOR, FFC/FPC 12P | | | |
| | | < JACK > | | | |
| CNJ600 | 1-793-598-11 | JACK (ANTENNA) | | | |
| CNP802 | 1-764-270-21 | JACK (REMOTE IN) | | | |
| | | < DIODE > | | | |
| D401 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D402 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D404 | 8-719-422-16 | DIODE MA8039-L-TX | | | |
| D405 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D601 | 8-719-921-44 | DIODE MTZJ-T-77-5.1C | | | |
| D603 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D701 | 8-719-109-98 | DIODE MTZJ-T-77-5.6C | | | |
| D702 | 8-719-058-24 | DIODE RB501V-40TE-17 | | | |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D801 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D802 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D807 | 8-719-109-97 | DIODE MTZJ-T-77-6.8B | |
| D810 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D811 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D812 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D813 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D814 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D815 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D816 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D817 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D818 | 8-719-109-93 | DIODE MTZJ-T-77-6.2B | |
| D822 | 8-719-977-12 | DIODE MA8068-M-TX | |
| D823 | 8-719-977-12 | DIODE MA8068-M-TX | |
| D901 | 8-719-200-82 | DIODE 11ES2-TA1B | |
| D902 | 8-719-200-82 | DIODE 11ES2-TA1B | |
| D903 | 8-719-049-38 | DIODE 1N5404TU | |
| D904 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D905 | 8-719-109-97 | DIODE MTZJ-T-77-6.8B | |
| D906 | 8-719-929-15 | DIODE MTZJ-T-77-9.1B | |
| D907 | 8-719-200-82 | DIODE 11ES2-TA1B | |
| D909 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D910 | 8-719-923-93 | DIODE MTZJ-T-77-16C | |
| D911 | 8-719-022-90 | DIODE MA8160-M-TX | |
| D913 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D914 | 8-719-977-12 | DIODE MA8068-M-TX | |
| D915 | 8-719-914-44 | DIODE DAP202K-T-146 | |
| D917 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D918 | 8-719-929-15 | DIODE MTZJ-T-77-9.1B | |
| D921 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D922 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D923 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D924 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D925 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D926 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D927 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D928 | 8-719-079-42 | DIODE 1ZB22(TPA3) | |
| D930 | 8-719-977-12 | DIODE MA8068-M-TX | |
| | | < IC > | |
| IC101 | 8-759-663-88 | IC TA8268H | |
| IC701 | 8-759-653-27 | IC TDA7402TR | |
| IC801 | 8-759-664-64 | IC MN101C49KTB | |
| IC901 | 8-759-572-12 | IC BA4903ST-V5 | |
| IC902 | 8-759-574-61 | IC XC61AN4302MR | |
| | | < JUMPER RESISTOR > | |
| JR101 | 1-216-295-00 | SHORT 0 | |
| JR102 | 1-216-295-00 | SHORT 0 | |
| JR110 | 1-216-296-00 | SHORT 0 | |
| JR111 | 1-216-296-00 | SHORT 0 | |
| JR201 | 1-216-295-00 | SHORT 0 | |
| JR202 | 1-216-295-00 | SHORT 0 | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| JR222 | 1-216-296-00 | SHORT 0 | |
| JR223 | 1-216-296-00 | SHORT 0 | |
| JR401 | 1-216-296-00 | SHORT 0 | |
| JR402 | 1-216-295-00 | SHORT 0 | |
| JR602 | 1-216-295-00 | SHORT 0 | |
| JR603 | 1-216-295-00 | SHORT 0 | |
| JR701 | 1-216-296-00 | SHORT 0 | |
| JR704 | 1-216-296-00 | SHORT 0 | |
| JR708 | 1-216-296-00 | SHORT 0 | |
| JR710 | 1-216-296-00 | SHORT 0 | |
| JR711 | 1-216-295-00 | SHORT 0 | |
| JR712 | 1-216-296-00 | SHORT 0 | |
| JR801 | 1-216-295-00 | SHORT 0 | |
| JR804 | 1-216-296-00 | SHORT 0 | |
| JR806 | 1-216-295-00 | SHORT 0 | |
| JR807 | 1-216-296-00 | SHORT 0 | |
| JR812 | 1-216-296-00 | SHORT 0 | |
| JR816 | 1-216-296-00 | SHORT 0 | |
| JR817 | 1-216-296-00 | SHORT 0 | |
| JR888 | 1-216-296-00 | SHORT 0 | |
| JR901 | 1-216-296-00 | SHORT 0 | |
| JR902 | 1-216-296-00 | SHORT 0 | |
| JR911 | 1-216-296-00 | SHORT 0 | |
| JR914 | 1-216-295-00 | SHORT 0 | |
| JR917 | 1-216-296-00 | SHORT 0 | |
| JR920 | 1-216-296-00 | SHORT 0 | |
| JR922 | 1-216-198-00 | RES-CHIP 1K 5% 1/8W | |
| JR923 | 1-216-295-00 | SHORT 0 | |
| JR924 | 1-216-295-00 | SHORT 0 | |
| | | < COIL > | |
| L901 | 1-419-476-31 | COIL, CHOKE 250uH | |
| | | < JACK > | |
| PJ400 | 1-794-067-11 | JACK, PIN 4P (AUDIO OUT FRONT, AUDIO OUT REAR) | |
| | | < TRANSISTOR > | |
| Q101 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q102 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q201 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q202 | 8-729-920-31 | TRANSISTOR DTC343TK-T-146 | |
| Q401 | 8-729-038-55 | TRANSISTOR KRA103S | |
| Q402 | 8-729-038-68 | TRANSISTOR KRC103S | |
| Q601 | 8-729-049-40 | TRANSISTOR STC2412G | |
| Q602 | 8-729-049-43 | TRANSISTOR STB1132Y | |
| Q603 | 8-729-038-68 | TRANSISTOR KRC103S | |
| Q701 | 8-729-038-55 | TRANSISTOR KRA103S | |
| Q702 | 8-729-038-68 | TRANSISTOR KRC103S | |
| Q703 | 8-729-015-11 | TRANSISTOR 2SD1802FAST-TL | |
| Q902 | 8-729-038-68 | TRANSISTOR KRC103S | |
| Q903 | 8-729-038-55 | TRANSISTOR KRA103S | |
| Q904 | 8-729-019-00 | TRANSISTOR 2SD2394-G | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| Q905 | 8-729-049-40 | TRANSISTOR | STC2412G | | |
| Q906 | 8-729-049-40 | TRANSISTOR | STC2412G | | |
| Q907 | 8-729-038-55 | TRANSISTOR | KRA103S | | |
| Q908 | 8-729-038-68 | TRANSISTOR | KRC103S | | |
| Q911 | 8-729-038-68 | TRANSISTOR | KRC103S | | |
| Q912 | 8-729-049-43 | TRANSISTOR | STB1132Y | | |
| Q913 | 8-729-038-68 | TRANSISTOR | KRC103S | | |
| Q914 | 8-729-038-55 | TRANSISTOR | KRA103S | | |
| Q915 | 8-729-038-55 | TRANSISTOR | KRA103S | | |
| Q916 | 8-729-049-40 | TRANSISTOR | STC2412G | | |
| Q917 | 8-729-049-40 | TRANSISTOR | STC2412G | | |
| Q918 | 8-729-049-40 | TRANSISTOR | STC2412G | | |
| Q919 | 8-729-038-68 | TRANSISTOR | KRC103S | | |
| Q920 | 8-729-019-00 | TRANSISTOR | 2SD2394-G | | |
| Q921 | 8-729-049-43 | TRANSISTOR | STB1132Y | | |
| Q922 | 8-729-019-00 | TRANSISTOR | 2SD2394-G | | |
| | | < RESISTOR > | | | |
| R102 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R103 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R112 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R114 | 1-216-174-00 | RES-CHIP | 100 | 5% | 1/8W |
| R115 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R116 | 1-216-226-00 | RES-CHIP | 15K | 5% | 1/8W |
| R117 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R118 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R123 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R124 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R202 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R203 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R212 | 1-216-174-00 | RES-CHIP | 100 | 5% | 1/8W |
| R214 | 1-216-174-00 | RES-CHIP | 100 | 5% | 1/8W |
| R215 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R216 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R217 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R218 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R223 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R224 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R402 | 1-247-879-11 | CARBON | 100K | 5% | 1/4W |
| R405 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R406 | 1-216-065-11 | RES-CHIP | 4.7K | 5% | 1/10W |
| R408 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R409 | 1-216-222-00 | RES-CHIP | 10K | 5% | 1/8W |
| R410 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R411 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R601 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R602 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R603 | 1-216-295-00 | SHORT | 0 | | |
| R604 | 1-216-295-00 | SHORT | 0 | | |
| R605 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R606 | 1-216-058-00 | RES-CHIP | 2.4K | 5% | 1/10W |
| R607 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R701 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R703 | 1-216-206-00 | RES-CHIP | 2.2K | 5% | 1/8W |
| R704 | 1-216-017-11 | RES-CHIP | 47 | 5% | 1/10W |
| R705 | 1-216-304-11 | METAL CHIP | 3.3 | 5% | 1/10W |
| R706 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R707 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R710 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R711 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R712 | 1-216-174-00 | RES-CHIP | 100 | 5% | 1/8W |
| R713 | 1-216-174-00 | RES-CHIP | 100 | 5% | 1/8W |
| R714 | 1-216-296-00 | SHORT | 0 | | |
| R801 | 1-208-806-11 | RES-CHIP | 10K | 2% | 1/10W |
| R802 | 1-208-806-11 | RES-CHIP | 10K | 2% | 1/10W |
| R803 | 1-216-105-11 | RES-CHIP | 220K | 5% | 1/10W |
| R804 | 1-216-105-11 | RES-CHIP | 220K | 5% | 1/10W |
| R805 | 1-216-246-00 | RES-CHIP | 100K | 5% | 1/8W |
| R806 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R807 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R808 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R812 | 1-216-295-00 | SHORT | 0 | | |
| R813 | 1-247-863-11 | CARBON | 22K | 5% | 1/4W |
| R815 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R816 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R818 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R819 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R820 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R821 | 1-216-069-11 | METAL CHIP | 6.8K | 5% | 1/10W |
| R824 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R825 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R826 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R827 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R829 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R830 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R831 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R832 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R833 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R834 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R837 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R838 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R839 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R840 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R841 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R843 | 1-216-295-00 | SHORT | 0 | | (4000X/4005) |
| R845 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W (4800X) |
| R846 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W (4800X) |
| R847 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R852 | 1-216-295-00 | SHORT | 0 | | |
| R854 | 1-216-295-00 | SHORT | 0 | | |
| R855 | 1-216-019-00 | RES-CHIP | 56 | 5% | 1/10W |
| R901 | 1-216-246-00 | RES-CHIP | 100K | 5% | 1/8W |
| R902 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R903 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W |

**MAIN** **RELAY** **SERVO**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R904 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R905 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R907 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R909 | 1-216-044-00 | METAL CHIP | 620 | 5% | 1/10W |
| R910 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R912 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R913 | 1-216-246-00 | RES-CHIP | 100K | 5% | 1/8W |
| R914 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R915 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R917 | 1-216-105-11 | RES-CHIP | 220K | 5% | 1/10W |
| R918 | 1-216-206-00 | RES-CHIP | 2.2K | 5% | 1/8W |
| R920 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R922 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R923 | 1-216-105-11 | RES-CHIP | 220K | 5% | 1/10W |
| R924 | 1-216-089-11 | RES-CHIP | 47K | 5% | 1/10W |
| R925 | 1-216-059-00 | METAL CHIP | 2.7K | 5% | 1/10W |
| R926 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R928 | 1-216-043-11 | RES-CHIP | 560 | 5% | 1/10W |
| R929 | 1-216-043-11 | RES-CHIP | 560 | 5% | 1/10W |
| R930 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W |
| R931 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R933 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R934 | 1-247-810-11 | CARBON | 130 | 5% | 1/4W |
| R935 | 1-247-810-11 | CARBON | 130 | 5% | 1/4W |
| R936 | 1-247-810-11 | CARBON | 130 | 5% | 1/4W |
| R937 | 1-247-810-11 | CARBON | 130 | 5% | 1/4W |
| R938 | 1-247-810-11 | CARBON | 130 | 5% | 1/4W |
| R939 | 1-247-810-11 | CARBON | 130 | 5% | 1/4W |
| R940 | 1-216-138-00 | RES-CHIP | 3.3 | 5% | 1/8W |
| | | < SWITCH > | | | |
| S900 | 1-762-638-11 | SWITCH, TACTILE (RESET) | | | |
| S901 | 1-771-540-11 | SWITCH, PUSH (1 KEY) (NOSE DET) | | | |
| SW802 | 1-571-478-11 | SWITCH, SLIDE (FREQUENCY SELECT) (4800X) | | | |
| | | < TUNER > | | | |
| TU601 | A-3220-738-A | TUNER UNIT (TUX-020) | | | |
| | | < VIBRATOR > | | | |
| X800 | 1-781-822-11 | VIBRATOR, CERAMIC (18.432MHz) | | | |
| X801 | 1-567-098-41 | VIBRATOR, CRYSTAL (32kHz) | | | |
| ********** | | | | | |
| * | 1-676-690-11 | RELAY BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| CNP902 | 1-794-064-11 | SOCKET, CONNECTOR 14P | | | |
| CNP903 | 1-792-173-11 | CABLE, FLAT (FFC) 12P | | | |
| | | < DIODE > | | | |
| LED905 | 8-719-033-14 | LED CL-170PG-CD-T (CD WINDOW) | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < SWITCH > | | | |
| LSW916 | 1-771-609-11 | SWITCH, TACTILE (WITH LED) (⏏) | | | |
| | | < RESISTOR > | | | |
| R930 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| ********** | | | | | |
| * | A-3294-809-A | SERVO BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C103 | 1-104-609-11 | ELECT CHIP | 100uF | 20% | 4V |
| C104 | 1-135-259-11 | TANTAL. CHIP | 10uF | 20% | 6.3V |
| C106 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C107 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C108 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C109 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C111 | 1-104-852-11 | TANTAL. CHIP | 22uF | 20% | 10V |
| C115 | 1-164-733-11 | CERAMIC CHIP | 820PF | 10% | 50V |
| C116 | 1-165-128-11 | CERAMIC CHIP | 0.22uF | | 16V |
| C117 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C118 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C127 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20% | 10V |
| C301 | 1-126-393-11 | ELECT CHIP | 33uF | 20% | 10V |
| C302 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C303 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C304 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C305 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C306 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C307 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C308 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C309 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C310 | 1-125-838-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C311 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C312 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C501 | 1-126-391-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C502 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V |
| C504 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C505 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C506 | 1-107-823-11 | CERAMIC CHIP | 0.47uF | 10% | 16V |
| C507 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C508 | 1-164-230-11 | CERAMIC CHIP | 220PF | 5% | 50V |
| C509 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C510 | 1-164-217-11 | CERAMIC CHIP | 150PF | 5% | 50V |
| C511 | 1-164-217-11 | CERAMIC CHIP | 150PF | 5% | 50V |
| C512 | 1-162-963-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C513 | 1-162-963-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C514 | 1-126-391-11 | ELECT CHIP | 47uF | 20% | 6.3V |
| C515 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C517 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C518 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |

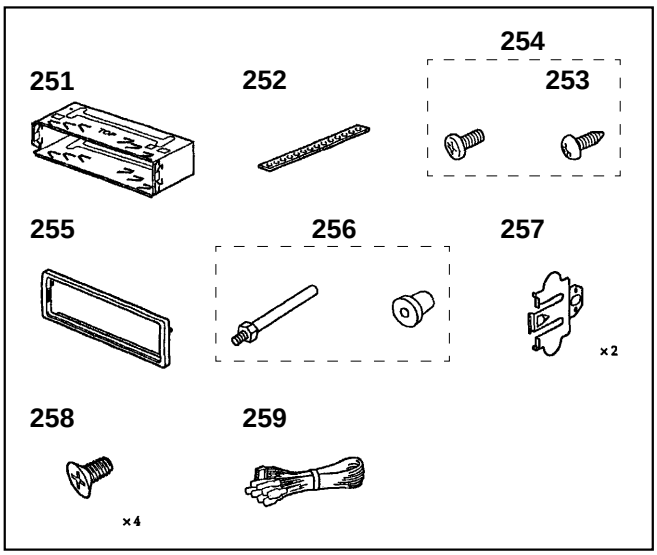
| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C519 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C520 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C521 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C522 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C550 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C553 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| C554 | 1-164-360-11 | CERAMIC CHIP | 0.1uF | | 16V |
| | | < CONNECTOR > | | | |
| CN1 | 1-764-616-12 | HOUSING, CONNECTOR (PC BOARD) 30P | | | |
| CN2 | 1-794-153-21 | CONNECTOR, FPC (ZIF)16P | | | |
| CN3 | 1-770-347-21 | CONNECTOR, FPC 6P | | | |
| | | < FERRITE BEAD > | | | |
| FB101 | 1-216-295-00 | SHORT | 0 | | |
| FB102 | 1-216-295-00 | SHORT | 0 | | |
| FB103 | 1-216-295-00 | SHORT | 0 | | |
| FB501 | 1-216-295-00 | SHORT | 0 | | |
| FB503 | 1-500-445-21 | FERRITE BEAD INDUCTOR | | | |
| | | < IC > | | | |
| IC1 | 8-752-095-36 | IC CXA2596M-T6 | | | |
| IC5 | 8-752-914-87 | IC CXP84640-072Q | | | |
| IC7 | 8-759-653-67 | IC LA6556 | | | |
| IC501 | 8-752-392-04 | IC CXD2598Q | | | |
| | | < JUMPER RESISTOR > | | | |
| JR501 | 1-216-295-00 | SHORT | 0 | | |
| JR505 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR506 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR507 | 1-216-295-00 | SHORT | 0 | | |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-904-87 | TRANSISTOR 2SB1197K-T-146-R | | | |
| | | < RESISTOR > | | | |
| R101 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/16W |
| R102 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/16W |
| R103 | 1-216-158-00 | RES-CHIP | 22 | 5% | 1/8W |
| R104 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/16W |
| R105 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R106 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/16W |
| R107 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R108 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R110 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R111 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R113 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| R116 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R122 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R123 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| R126 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R127 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R213 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R301 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/16W |
| R302 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| R303 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R304 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| R306 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R307 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R308 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R309 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R310 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R311 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R312 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R313 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R314 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R315 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R316 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R317 | 1-216-838-11 | METAL CHIP | 27K | 5% | 1/16W |
| R318 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R319 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/16W |
| R321 | 1-216-846-11 | METAL CHIP | 120K | 5% | 1/16W |
| R322 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/16W |
| R501 | 1-216-833-11 | RES-CHIP | 10K | 5% | 1/16W |
| R503 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R504 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/16W |
| R505 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| R506 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R507 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W |
| R511 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R513 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W |
| R516 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R517 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R518 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/16W |
| R519 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/16W |
| R520 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/16W |
| R521 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/16W |
| R522 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/16W |
| R523 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/16W |
| R524 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R526 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R527 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R531 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R532 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R533 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R535 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R551 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R552 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R553 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R554 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R555 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R558 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R560 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R563 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R564 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R568 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |

## SERVO

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R569 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R570 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R572 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R590 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R594 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R595 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R599 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| | | < SWITCH > | | | |
| SW1 | 1-762-944-12 | SWITCH, DETECTION (SMALL TYPE) (DOWN) | | | |
| | | < VIBRATOR > | | | |
| X1 | 1-781-758-21 | VIBRATOR, CERAMIC (CHIP TYPE) (10MHz) | | | |
| X2 | 1-781-759-21 | VIBRATOR, CERAMIC (CHIP TYPE) (16MHz) | | | |
| ********** | | | | | |
| | | MISCELLANEOUS | | | |
| | | ********** | | | |
| 9 | 1-792-194-21 | CORD (WITH CONNECTOR) (POWER) | | | |
| * 201 | X-3378-480-1 | CHASSIS (OP) ASSY (INCLUDING M901) | | | |
| 206 | 1-676-707-11 | PICK-UP FLEXIBLE BOARD | | | |
| 207 | 1-677-182-11 | MOTOR FLEXIBLE BOARD | | | |
| ⚠210 | 8-820-103-03 | PICK-UP, OPTICAL KSS-720A/K1RP | | | |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) 10A | | | |
| M902 | A-3301-985-A | MOTOR ASSY, SLED (SLED) | | | |
| M903 | A-3301-978-A | MOTOR SUB ASSY, LO (LOADING) | | | |
| ********** | | | | | |
| | | ACCESSORIES & PACKING MATERIALS | | | |
| | | ********** | | | |
| | 3-043-291-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (4000X/4005) | | | |
| | 3-043-292-11 | MANUAL, INSTRUCTION (ENGLISH) (4000X/4005) | | | |
| | 3-043-292-21 | MANUAL, INSTRUCTION (FRENCH) (CND) | | | |
| | 3-044-884-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,TRADITIONAL CHINESE) (4800X) | | | |
| | 3-044-885-11 | MANUAL, INSTRUCTION (ENGLISH,SPANISH, TRADITIONAL CHINESE) (4800X) | | | |
| | X-3378-390-1 | CASE ASSY (for FRONT PANEL) | | | |
| ********** | | | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-685-793-09 | SCREW +PTT 2.6X8 (S) | |
| #2 | 7-685-792-09 | SCREW +PTT 2.6X6 (S) | |
| #3 | 7-685-795-09 | SCREW +PTT 2.6X12 (S) | |
| #4 | 7-685-106-19 | SCREW +P 2X10 TYPE 2 NON-SLIT | |
| #5 | 7-621-772-20 | SCREW +B 2X5 | |
| #6 | 7-627-552-87 | SCREW, PRECISION +P 1.7X2.2 | |
| #7 | 7-628-253-00 | SCREW +PS 2X4 | |
| #8 | 7-627-553-37 | SCREW, PRECISION +P 2X3 TYPE 3 | |
| #9 | 7-627-553-17 | SCREW, PRECISION +P 2X2 TYPE 3 | |
| #10 | 7-627-850-28 | SCREW, PRECISION +P 1.4X3 | |
| ********** | | | |
| | | PARTS FOR INSTALLATION AND CONNECTIONS | |
| | | ********** | |
| 251 | 3-014-370-21 | FRAME, FITTING | |
| 252 | 3-916-012-01 | BRACKET (ND), FITTING ASSIST | (4000X/4005) |
| 253 | 7-682-160-01 | SCREW +P 4X6 (4000X/4005) | |
| 254 | X-3368-725-1 | SCREW ASSY, FITTING (4000X/4005) | |
| 255 | 3-041-027-01 | COLLAR | |
| 256 | X-3366-405-1 | SCREW ASSY (EXP), FITTING (4800X) | |
| 257 | 3-030-929-02 | SPRING, FITTING | |
| 258 | 3-934-325-01 | SCREW (+K 5X8 TP) | |
| 259 | 1-792-194-21 | CORD (WITH CONNECTOR) (POWER) | |




| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une piéce portant le numéro spécifié. |



Sony Corporation
Mobile Electronics Division Company

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